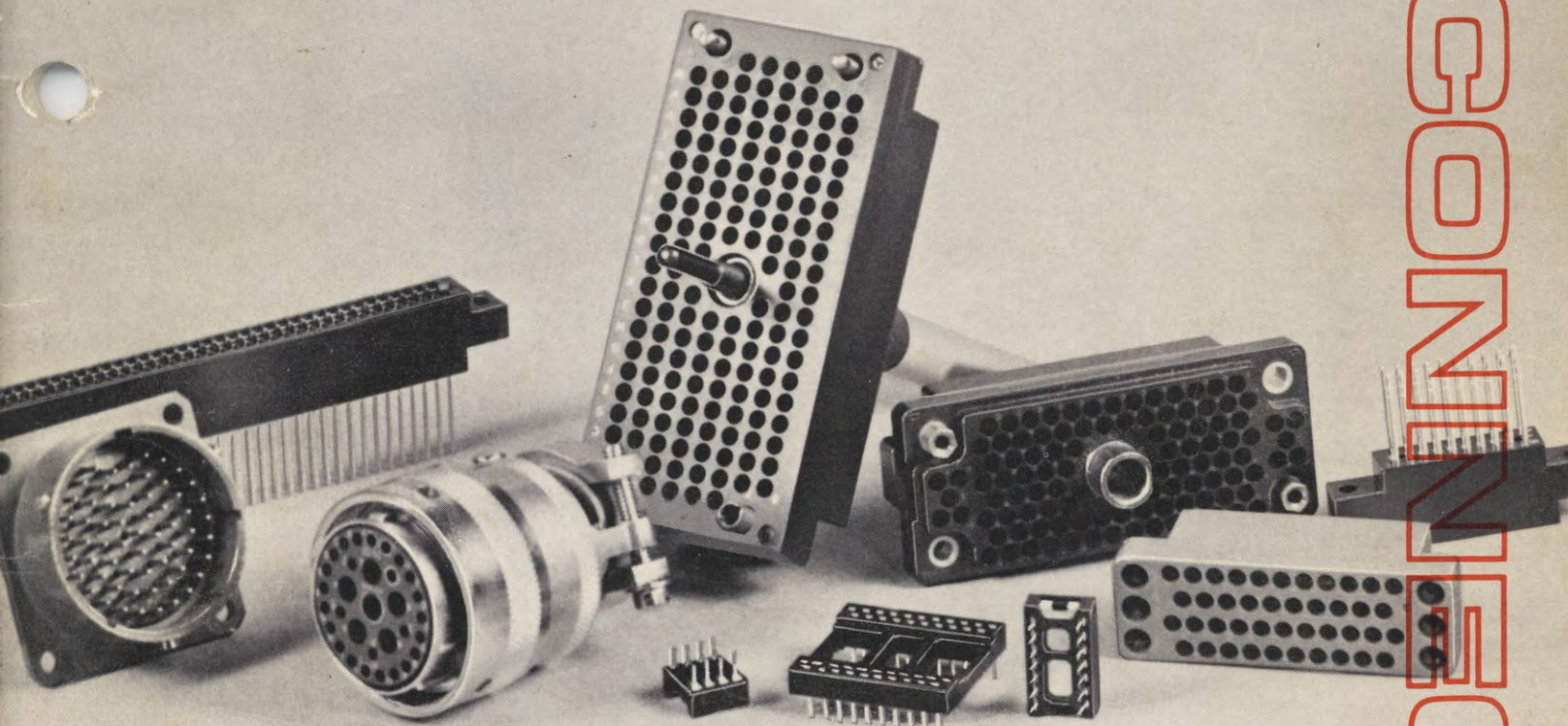


BURNDY CONNECTORS FOR THE ELECTRONICS INDUSTRY



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BURNDY CONNECTORS



Burndy is a multi-national corporation with one of the world's broadest lines of electrical and electronic connectors. In the forefront of connector technology since 1924, Burndy maintains a continuing research and development program designed to meet the interconnect requirements so essential to today's sophisticated electronic industry. As a result of this effort, it supplies thousands of different products for use in such industries as computers, business equipment, calculators, consumer goods and appliances, as well as in commercial and military aircraft.

Burndy's leadership in the field of electronic connectors is evidenced by the many "firsts" developed in anticipation of industry needs:

- FIRST BASE-METAL CONTACT SYSTEM THAT OFFERS THE RELIABILITY OF GOLD.
- FIRST HIGH-RELIABILITY AIRCRAFT FUSES.
- FIRST CRIMP-STYLE COAXIAL CABLE CONNECTOR.
- FIRST CRIMP-STYLE REMOVABLE CONTACT FOR MULTIPLE CONTACT CONNECTORS.
- FIRST UMBILICAL CONNECTOR SUITABLE FOR AIRBORNE MISSILE APPLICATIONS.
- FIRST SEPARABLE MULTI-CONTACT CONNECTOR FOR LIQUID CRYSTAL DISPLAYS.
- FIRST MULTI-CONTACT, HIGH-PRESSURE CONNECTOR FOR LEADLESS INTEGRATED CIRCUIT PACKAGES.

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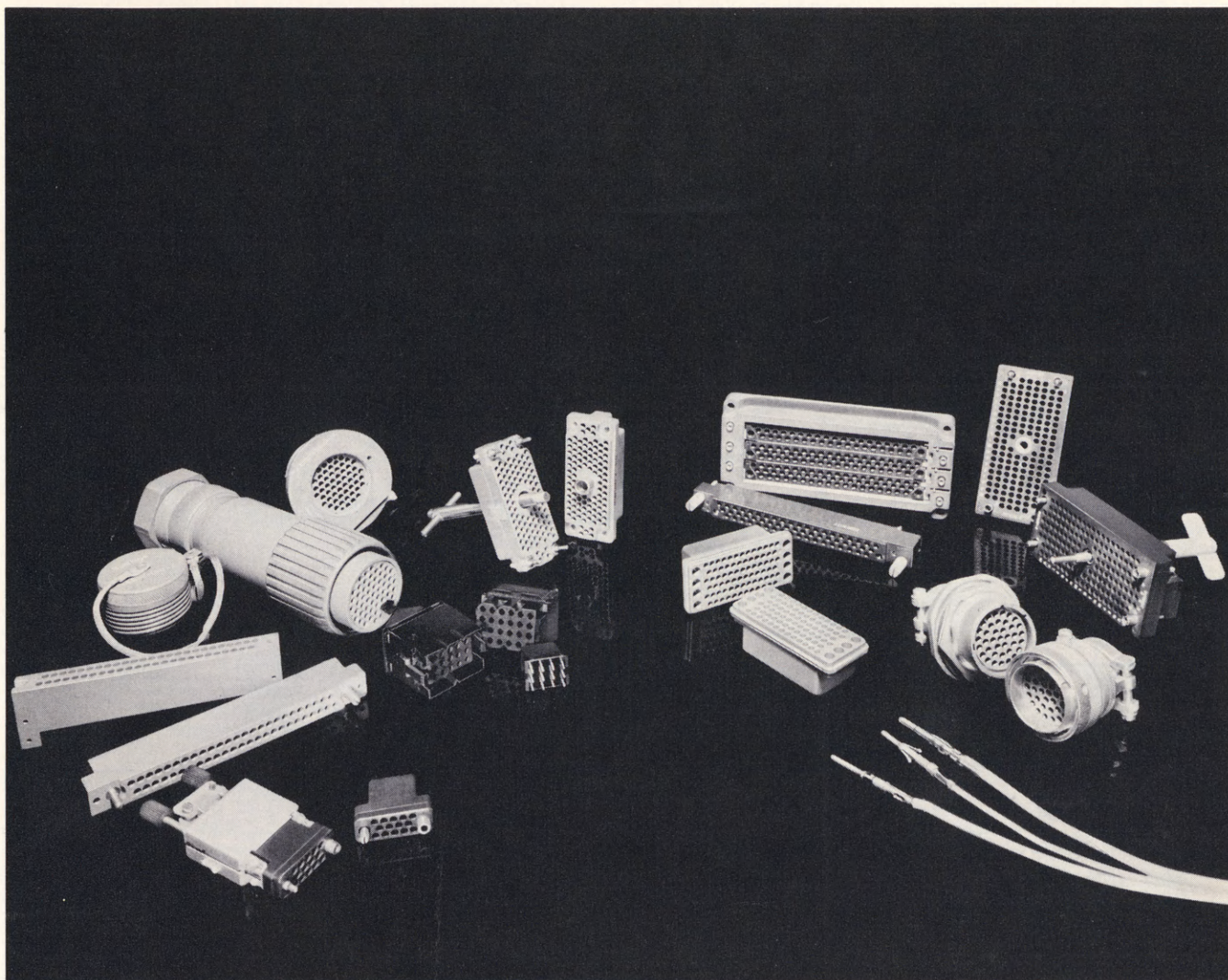
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Choice—and economy—are the keynotes of Burndy's TRIM TRIO interconnect system. No other system offers you so many design options and possibilities. A wide variety of different housings to choose from including cylindrical, rectangular, modular and general purpose types as well as PC connectors and rack and panel types.

AND ONE CONTACT SYSTEM SERVES THEM ALL.

Precision formed. Machined. Subminiature coax. These three basic types—with variations for different

conductors, contact platings, and terminating options—make up the TRIM TRIO contact system. All are built to the same design parameters and can be intermixed in any one of the many Burndy TRIM TRIO housing available.

And no matter how many different combinations you use, you still get all the advantages of standardization. Faster, more economical assembly. Reduced inventory. Uniform quality control procedures. Universal tooling. Simplified operator training.

14-75 Place Blocks: These blocks are made of glass-filled phenolic or diallyl. The hardware is pre-assembled to the blocks, eliminating assembly time and the possibility of missing parts. Hoods are of a unique design which permits contacts to be inserted or extracted without dismantling hoods. An illustrated ordering guide gives the catalog numbers for pre-assembled block configurations.

104 and 152 Place Blocks: The 104 place block is molded of diallyl; the 152 of glass-filled phenolic. Both have a center jackscrew for easy connection and disconnection while maintaining positive engagement.

MSB-M is a commoning block for subminiature coaxial contacts.

Performance Characteristics

Operating Temperature

Insulation Resistance (min.)

Test Potential (1 min. duration)

Contact Retention in Panel (min.)

Shock

Materials:

MS-M blocks

MSD-M blocks

MSB-M

Guide Pins and Sockets

Keyed Jacks and Rotating Jacks

—55°C to +125°C

5000 megohms

2000 VAC, 60 Hz

25 lbs. (machined contacts)

15 lbs. (formed contacts) after 10 insertions and withdrawals

Per MIL-STD-202, method 207

Glass-filled phenolic per MIL-M-14F, type MFH

Diallyl Phthalate per MIL-M-19833

Glass-filled phenolic per MIL-M-14F type MFH with a tin nickel finish.

Without accessories — Brass ASTM B1.6. With accessories — Stainless Steel #303

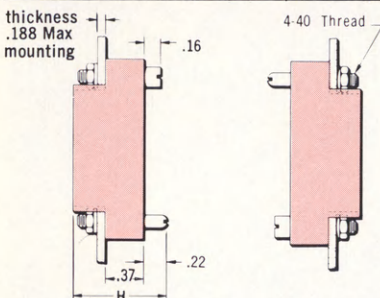
Stainless Steel #303

14 to 75 Position Blocks Type MS-M, MSD-M, MSB-M

Block Size

All 3 block families have the same face dimensions. The side dimensions shown are the same for any block family regardless of the number of contact positions.

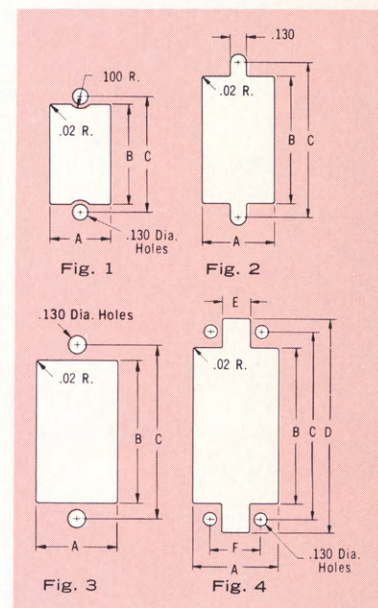
Block Family	Max. "H" In.	
	With Jackscrews	With Guide Pin & Socket
MS-M	1.13	1.10
MSD-M	1.13	1.10
MSB-M	1.13	1.10



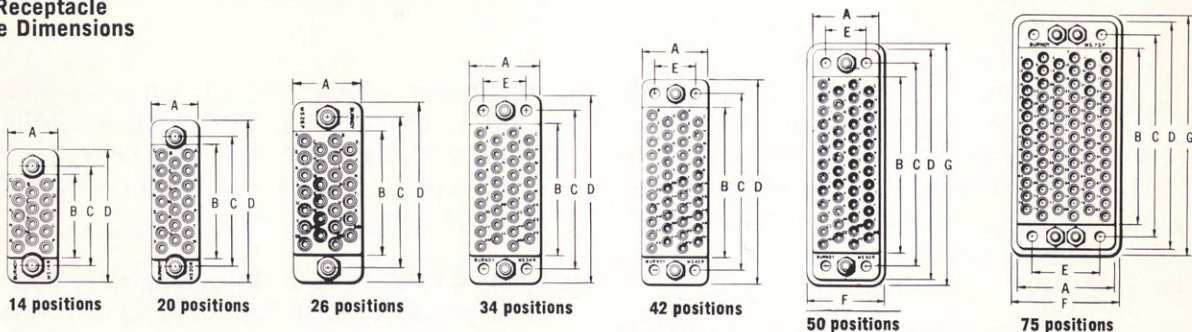
Panel Cutouts

All 3 block families have the same cutout dimensions for blocks with the same number of contact positions. Alternate methods of mounting, slot or hole, are indicated in the table.

No. of Positions	Fig. No.	Dimensions in Inches						
		A	B	C	D	E	F	
14	1 or 2	.49	.82	.937	—	—	—	
20	1 or 2	.49	1.13	1.250	—	—	—	
26	2 or 3	.62	1.11	1.312	—	—	—	
34	4	.78	1.44	1.686	1.94	.25	.468	
42	4	.78	1.72	1.990	2.24	.25	.468	
50	4	.78	2.03	2.281	2.53	.25	.468	
75	4	1.14	2.03	2.281	2.53	.56	.764	



Plug and Receptacle Block Face Dimensions



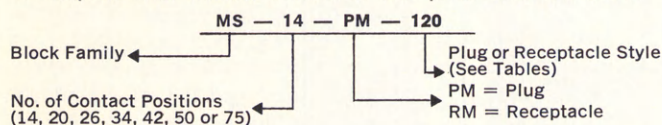
No. of Positions	Dimensions in Inches						
	A	B	C	D	E	F	G
14	.46	.79	.937	1.25	—	—	—
20	.46	1.10	1.250	1.56	—	—	—
26	.59	1.07	1.312	1.62	—	—	—
34	.75	1.41	1.686	2.00	.468	—	—
42	.75	1.69	1.990	2.31	.468	—	—
50	.75	2.00	2.281	2.59	.468	.87	2.72
75	1.11	2.00	2.281	2.59	.764	1.23	2.72

The number of contact positions must be used to complete the catalog numbers in the Ordering Chart.

14 to 75 Position Blocks (Cont'd)

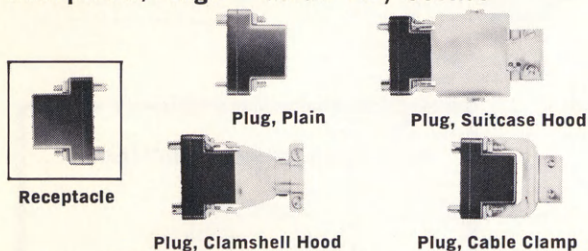
Ordering Information

*A complete order number consists of four parts as shown below:



The example at left orders a glass-filled phenolic block plug with 14 contact positions, a clamshell hood, and guide pin/socket orientation. Any plug configuration listed in the tables can be ordered as a receptacle by specifying RM not PM. See page 9 for contact ordering data. For other combinations consult factory.

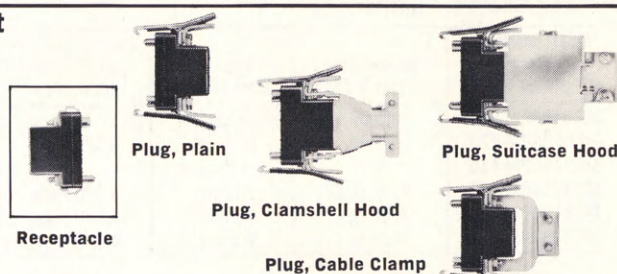
Receptacle/Plugs — Guide Pin, Socket



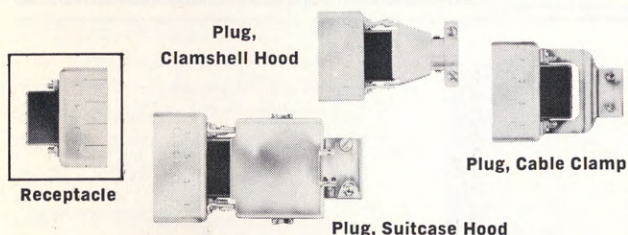
Block Family	Receptacle (Suffix)	Catalog Number*			
		Plugs (Suffix)			
		Plain	Clamshell Hood	Suitcase Hood	Cable Clamp
MS—*	RM1	PM1	PM120	PM820	PM269
MSD—*	RM1	PM1	PM120	PM820	PM269
MSB—*	RM1	PM1	PM120	PM820	PM269

Receptacle/Plugs — Guide Pin, Socket, Quick Disconnect

Block Family	Receptacle (Suffix)	Catalog Number*			
		Plugs (Suffix)			
		Plain	Clamshell Hood	Suitcase Hood	Cable Clamp
MS—*	RM1C	PM1L	PM120L	PM820L	PM269L
MSD—*	RM1C	PM1L	PM120L	PM820L	PM269L
MSB—*	RM1C	PM1L	PM120L	PM820L	PM269L



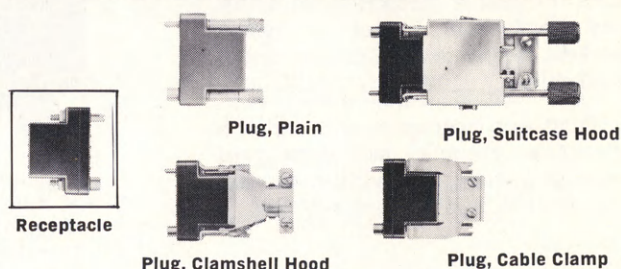
Receptacle/Plugs — Guide Pin, Socket, Pin Protection Skirt



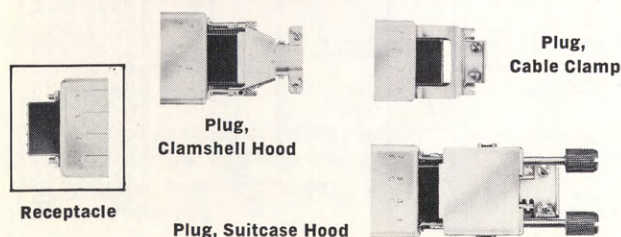
Block Family	Receptacle (Suffix)	Catalog Number*		
		Plugs (Suffix)		
		Clamshell Hood	Suitcase Hood	Cable Clamp
MS—*	RM1S9	PM120S9	PM820S9	PM269S9
MSD—*	RM1S9	PM120S9	PM820S9	PM269S9
MSB—*	RM1S9	PM120S9	PM820S9	PM269S9

Receptacle/Plugs — Jack Screws

Block Family	Receptacle (Suffix)	Catalog Number*			
		Plugs (Suffix)			
		Plain	Clamshell Hood	Suitcase Hood	Cable Clamp
MS—*	RM58	PM57	PM124	PM824	PM118
MSD—*	RM58	PM57	PM124	PM824	PM118
MSB—*	RM58	PM57	PM124	PM824	PM118



Receptacle/Plugs — Jack Screws, Pin Protection Skirt



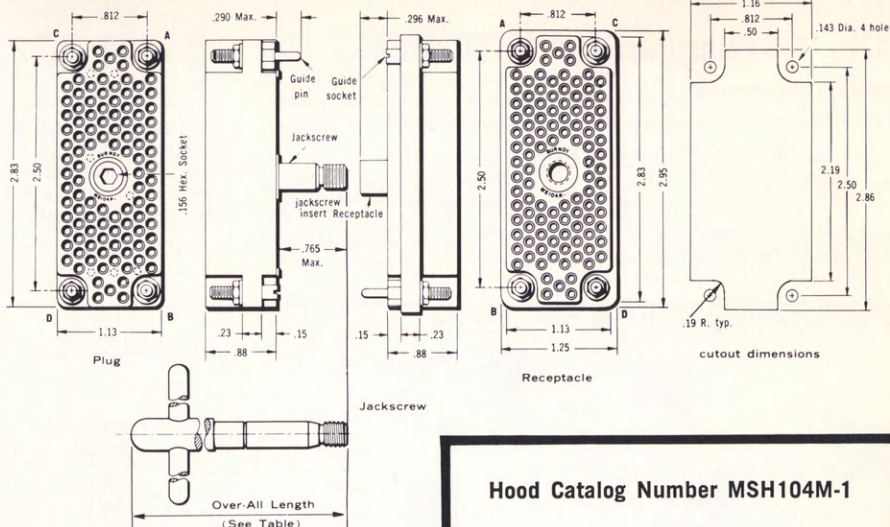
Block Family	Receptacle (Suffix)	Catalog Number*		
		Plugs (Suffix)		
		Clamshell Hood	Suitcase Hood	Cable Clamp
MS—*	RM58S9	PM124S9	PM824S9	PM118S9
MSD—*	RM58S9	PM124S9	PM824S9	PM118S9
MSB—*	RM58S9	PM124S9	PM824S9	PM118S9

104 Position Block

Type MSD104-M

This connector enables the user to accommodate 104 contacts in a single unit. These contacts may be any combination of subminiature coaxial contacts and #16 machined and formed contacts.

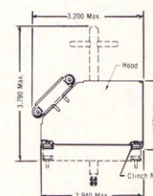
The plugs and receptacles are molded of diallyl phthalate per MIL-M-14, type SDG. The jackscrews and related hardware are machined of non-magnetic, passivated stainless steel. The molded in mounting ferrules in both the plug and receptacle are brass, cadmium plated.



Ordering Chart for MSD104-M

MSD104PM— (Plug Catalog No.)	Orientation of Guide Pins	Type of Jackscrew	Overall Length of Winged Jackscrew	MSD104RM— (Receptacle) Catalog No.
MSD104PM-401	None	Hex-Socket	—	MSD104RM-402
MSD104PM-410	None	Winged	4.520 max.	MSD104RM-402
MSD104PM-415	A, D	Hex-Socket	—	MSD104RM-416
MSD104PM-487	A, B, C, D	Winged	3.020 max.	MSD104RM-489
MSD104PM-488	A, B, C, D	Winged	3.520 max.	MSD104RM-489
MSD104PM-494	A, B, C, D	Winged	4.520 max.	MSD104RM-489

Hood Catalog Number MSH104M-1



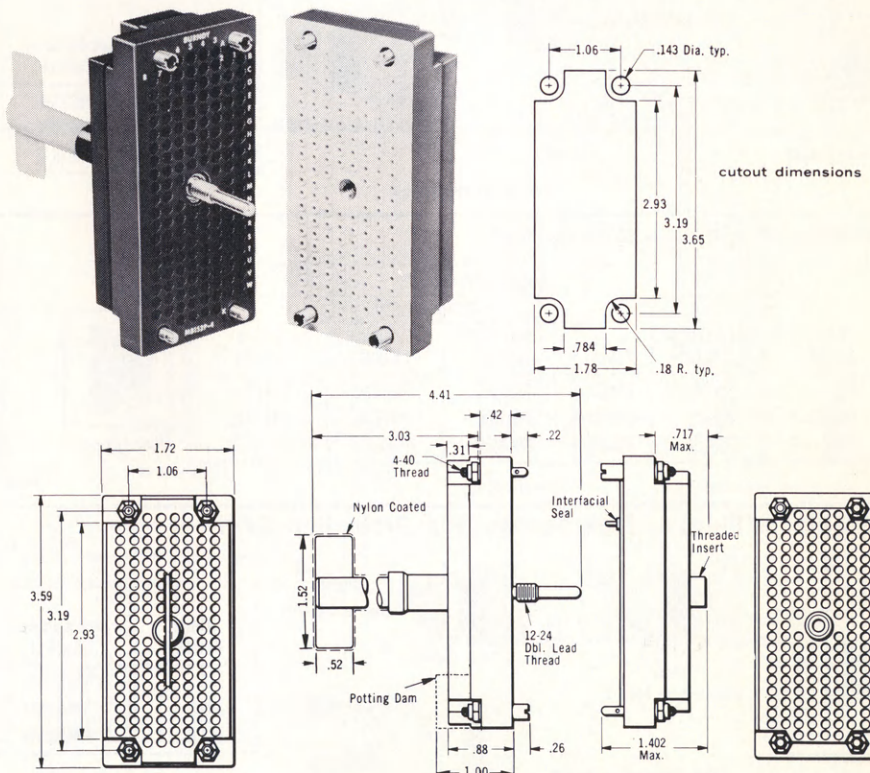
A combination hood and cable clamp assembly has been designed for the MSD104PM-410 and MSD104PM-494 connectors. Unlike the other accessories, this one is not pre-assembled by Burndy to the connector panel but must be ordered separately.

152 Position Block

Type MB152-4

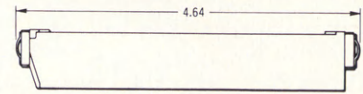
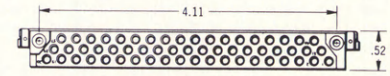
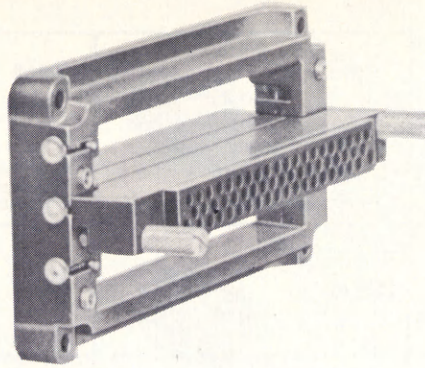
This connector enables the user to accommodate 152 contacts in a single unit. The plug or receptacle will accept any combination of machined, formed sockets, or subminiature coaxial contact assemblies.

Plugs and receptacles are molded of glass-filled phenolic. Jack screw hardware and guide pins/sockets are machined of passivated stainless steel.

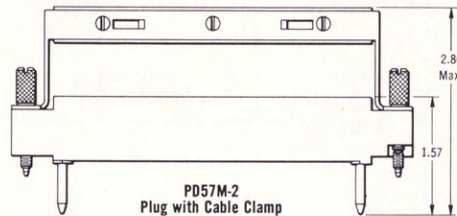
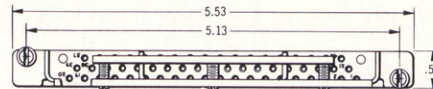


PD57 Modular Connector

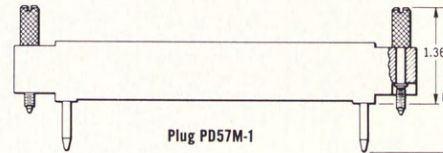
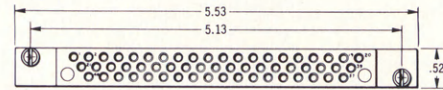
The PD57 combines the convenience and flexibility of the modular concept with the reliability and ease of crimp-type snap-locked contacts. The PD modular line consists of glass-filled phenolic molded inserts in a high impact strength, die-cast anodized aluminum frame. All frames accept inserts from either front or rear of the mounting panel.



Receptacle PD57F-1



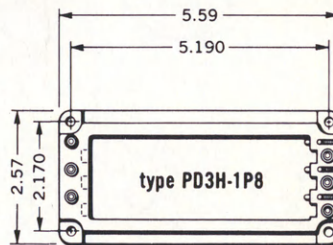
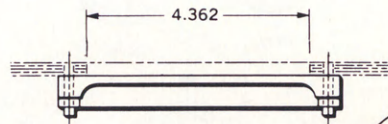
PD57M-2
Plug with Cable Clamp



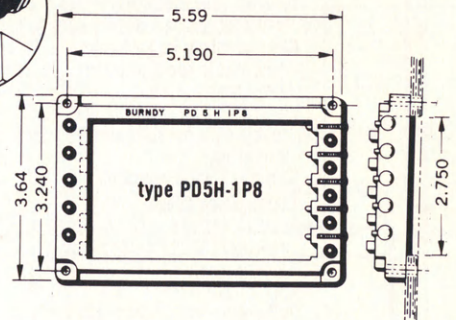
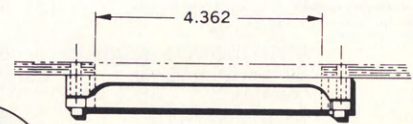
Plug PD57M-1

Frames for Modular Connector Type PD

Die-cast anodized aluminum alloy frames allow receptacles to be inserted from either front or rear of mounting panel. Locking plungers hold each receptacle insert in place, and permit its ready removal. Design has withstood tests for high impact shock up to 2000 foot lbs. (detail in circle shows spring loaded locking plunger in place). Frames are available for 3 or 5 inserts.



type PD3H-1P8



type PD5H-1P8

3-INSERT FRAME

PD3H-1P8 for three inserts mounts with four no. 8 screws on 5.19" x 2.17" centers. Panel cutout dimensions are 4.36" x 1.68".

5-INSERT FRAME

PD5H for five inserts mounts with four no. 8 screws on 5.19" x 3.24" centers. Panel cutout dimensions are 4.36" x 2.75".

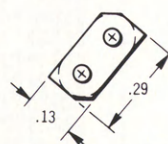
Commoning Buss

Material

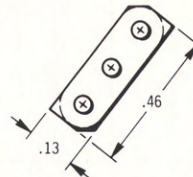
Buss: Copper ASTM152

Pin: Phosphor Bronze

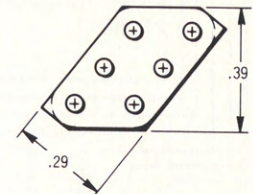
Installation is done by crimping wires in sockets, inserting sockets into panel, and inserting buss into sockets which require commoning.



MLB2M-4F29



MLB3M-3F29



MLB6M-3F29

Trim Trio Round connectors are available in a full range of sizes, styles and termination to fit every application. Sizes range from 4 to 48 contact positions. 9 shell styles are available with 4 terminations including general duty, strain relief, potting boot and 90° elbow.

Performance Characteristics

Operating Temperature: -55°C to +125°

Insulation Resistance: 5000 megohms

Test Potential — Dielectric Withstanding Voltage: 2000 VAC, 60 Hz for 1 minute

Contact Retention: 25 lbs. (machined); 15 lbs. (formed)

Corrosion Salt Spray per MIL-STD-202, method 101

Vibration Resistance: per MIL-STD-202, method 204

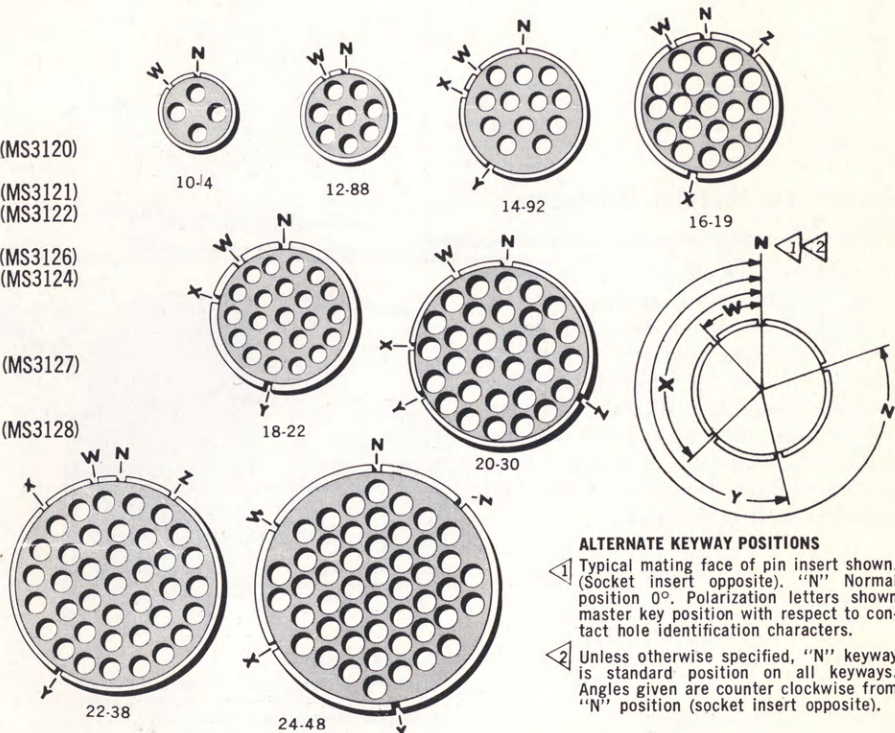
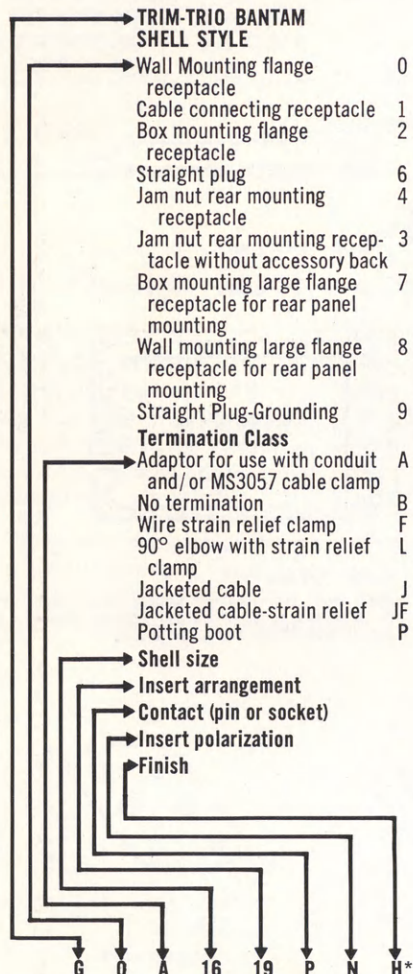
Shock: per MIL-STD-202, method 207

Durability: 500 Cycles

Note 1. Shell style numbers in parenthesis reference the equivalent configurations per MIL-C-26482.

Style 0 Wall mounting flange receptacle	Style 8 Large flange wall mounting receptacle for back panel mounting (similar to 0)	Style 1 Cable connecting receptacle
Style 6 Straight plug	Style 9 Straight plug-grounding	Style 4 Jam nut rear mounting receptacle
Style 7 Large flange box mounting receptacle for back panel mounting (similar to 2)	Style 2 Box mounting flange receptacle	Style 3 Jam nut rear mounting receptacle without accessory back

How to Order (Note 1)



ALTERNATE KEYWAY POSITIONS

- 1 Typical mating face of pin insert shown. (Socket insert opposite). "N" Normal position 0°. Polarization letters shown master key position with respect to contact hole identification characters.
- 2 Unless otherwise specified, "N" keyway is standard position on all keyways. Angles given are counter clockwise from "N" position (socket insert opposite).

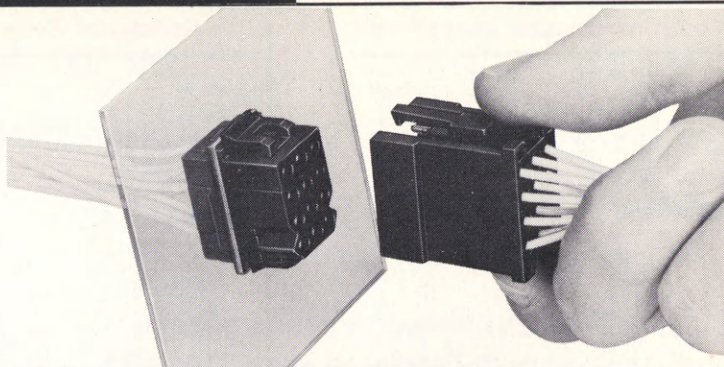
Shell Size	Arrangement No.	Insert Catalog No.	Insert Position in Shell			
			W	X	Y	Z
10	4	G10-4 P/S	45°	—	—	—
12	88	G12-88 P/S	26°	—	—	—
14	92	G14-92 P/S	49°	—	145°	—
16	19	G16-19 P/S	30°	165°	—	315°
18	22	G18-22 P/S	39°	77°	167°	—
20	30	G20-30 P/S	34°	90°	123°	259°
22	38	G22-38 P/S	15°	47°	150°	331°
24	48	G24-48 P/S	60°	120°	189°	315°

* FINISH

H — Cadmium plate with olive drab chromate conversion coating as specified in MIL-C-26482
E — Cadmium plate with clear chromate conversion coating

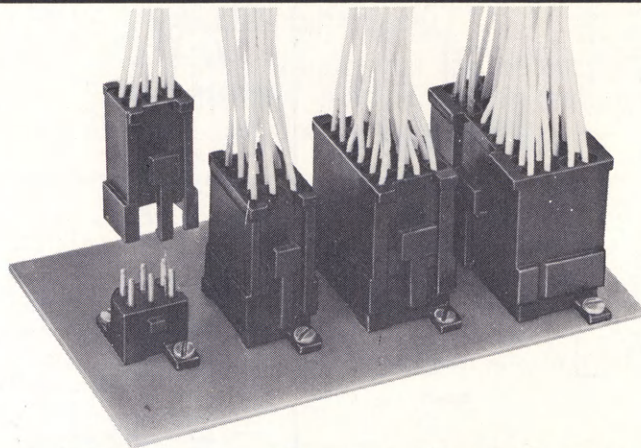
Selfmount Connector

Available in 6, 12, 24 and 36 contact positions. Receptacles snap-lock into panel cutouts and plugs quick-connect and quick-disconnect with positive retention locks. Plugs also feature pin-protection skirts and positive polarization. Qikmate plugs are available with accessory strain-relief hoods. See below. Receptacles always have socket contacts.

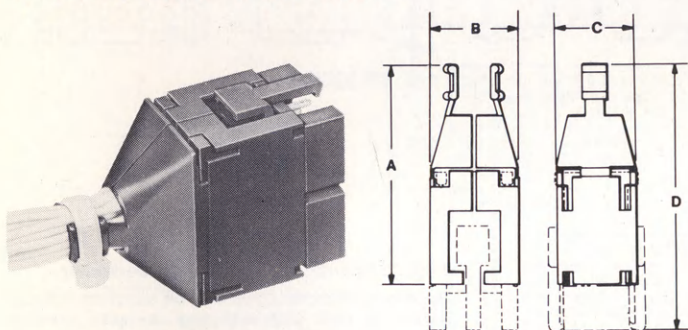


Boardmount Connector

Receptacle block contacts penetrate through PC board for wave or dip soldering. Receptacle block mounting flanges are available to mechanically fasten them to PC board. Plug connectors are standard Qikmate type. Qikmate Boardmount connectors feature positive, quick connect/quick disconnect latches and error free polarization. Housings are supplied pre-assembled with either pin or socket contacts. Available with 6, 12, 24, or 36 contact positions.

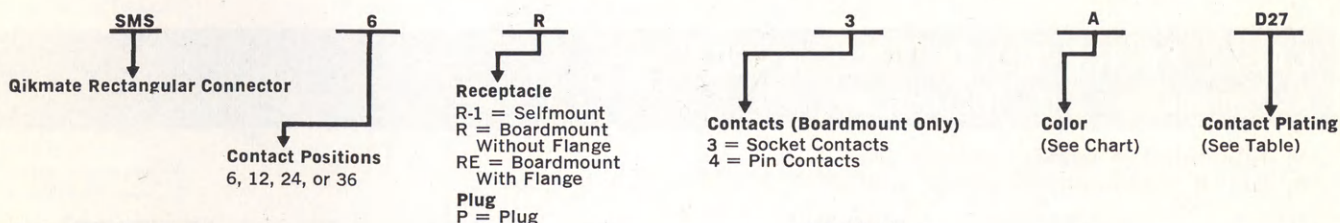


QIKMATE Strain Relief Hoods



Qikmate Contact Position	Catalog No.	Wire Bundle	Recommended UNIRAP Cable Tie	Dimensions in Inches			
				A	B	C	D
6	SMS6H-1	.090-.325	TF4	1.804 1.764	.760	.63	2.205
12	SMS12H-1	.120-.400	TF5	1.754 1.714	.775	1.02	2.165
24	SMS24H-1	.180-.500	TF5	1.969 1.929	.960	1.43	2.370
36	SMS36H-1	.275-.625	TF5	2.256 2.216	1.960	1.03	2.657

Ordering Information — Selfmount/Boardmount



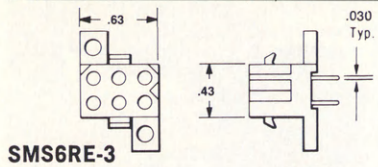
Contact Plating Table

D27	.000005 Min. Gold Over .00020 Min. Silver
D28	.000030 Min. Gold Over .00020 Min. Silver
D29	.000030 Min. Gold Over .000075 Min. Nickel
TK2	Tin Plated

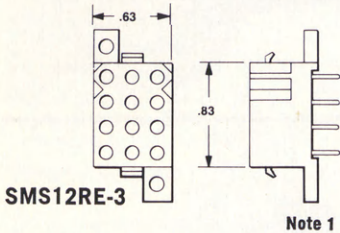
Color Table

A	Black
B	Natural (White)
G	Blue
R	Green
Y	Red
	Yellow

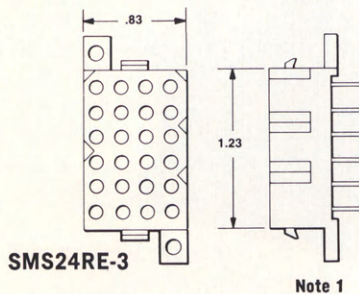
Boardmount Receptacles



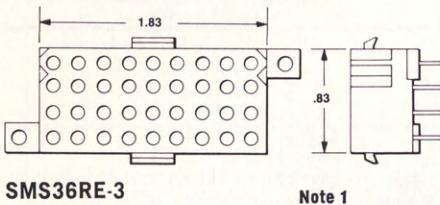
Note 1



Note 1

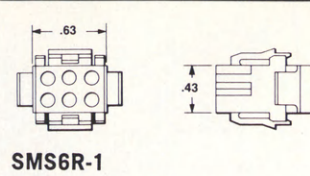


Note 1

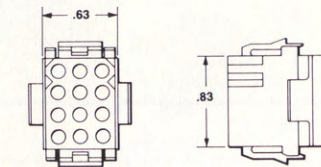


Note 1

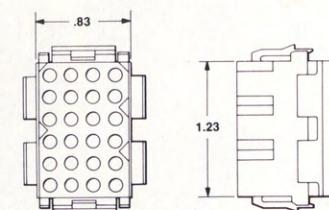
Selfmount Receptacles



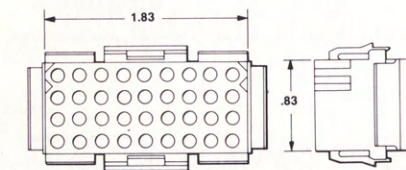
SMS6R-1



SMS12R-1

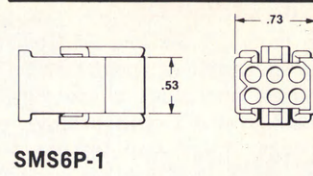


SMS24R-1

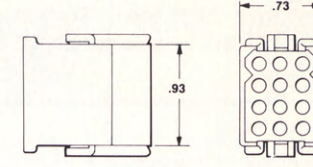


SMS36R-1

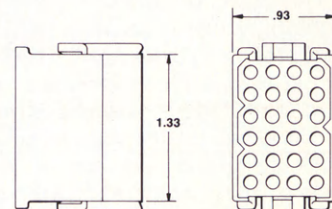
Plugs



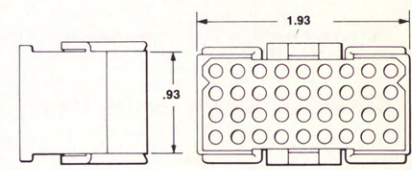
SMS6P-1



SMS12P-1



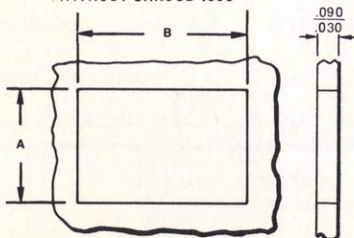
SMS24P-1



SMS36P-1

Mounting Information — Selfmount

MAXIMUM PANEL THICKNESS
WITH SHROUD .062 MAX.
WITHOUT SHROUD .090



Panel Cutout Dimensions		
Receptacle Connector	Catalog No. Dim. A	Dim. B
SMS6R-1	.655	.650
SMS12R-1	.655	1.050
SMS24R-1	.855	1.450
SMS36R-1	1.050	1.855

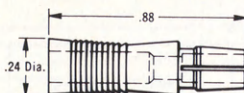
Note 1: Boardmount Mounting Information

Boardmount receptacles can be supplied without mounting ears and with pin contacts. Contact factory for PC board hole pattern and other mounting dimensions.

CABLE SPICE QUICK DISCONNECT

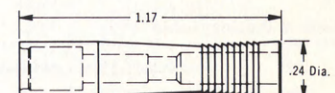
Accommodates Trim Trio Contacts

One subminiature coaxial contact or
One no. 16 machined or formed contact



RSCDEX-2 Plug

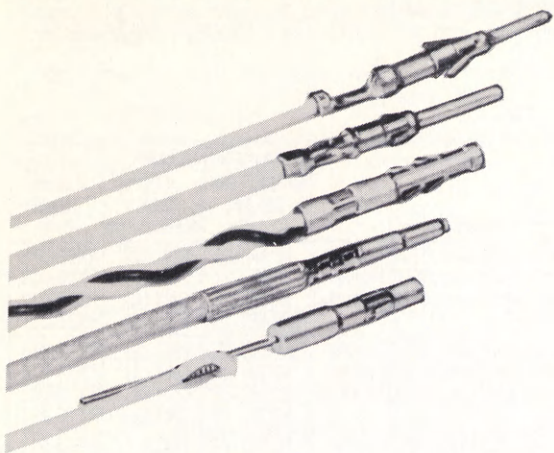
Closing with a positive snap this quick disconnect cable splice locks until intentionally separated. At that time a separating force of between three and eleven pounds is all that is needed.



RSMDEX-1 Receptacles

Used in conjunction with the MS-M, MSD-M, and MSB-M rectangular connectors and their contacts, this Trim Trio quick disconnect splice offers the user unlimited wiring versatility.

One Contact System Serves the Entire Trim Trio Family



Choose from any of the full line of Trim Trio contacts:

- Machined power contacts
- Strip-formed power contacts (gold or tin-plated)
- Strip-formed one-piece contacts (tin-plated)
- Submin coax or twisted pair contacts (one-piece or multi-piece)

Any Trim Trio contact can be used in any contact position in any Trim Trio rectangular, Qik-mate or cylindrical connector.

No. 16 Machined Contacts, .0625 Diameter

Pins and sockets are made of high conductivity copper alloy. Springs on both contacts are made of spring-temper, heat-treated, nickel-plated beryllium copper. The socket spring supplies high contact pressure to ensure low resistance contact between pin and socket. The socket contact features

closed entry to prevent probe damage. Barrels on both contacts have insulation grips for vibration support. They also have a cable stop and inspection hole. Contacts are furnished gold plated. See Fig. 7 for socket with solderless wrap post.

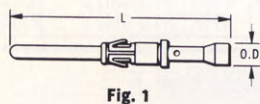


Fig. 1

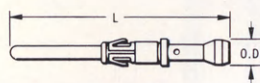


Fig. 2

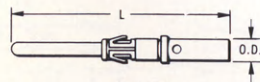


Fig. 3

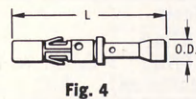


Fig. 4

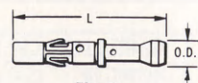


Fig. 5

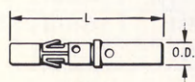


Fig. 6

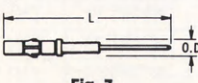


Fig. 7

Nom. Dia.	Wire Size† and Type	Cable Insulation Accom.		Contact Cat. No.*	Fig. No.	Dimensions in Inches			Installation Tools			Extraction Tool	
		Max.	Min.			Cable Strip Length	L	O.D.	M8ND/ Y8ND Die Set	M10S-1			
									Cat. No.	Die Set Cat. No.	Stop Bushing		
Pins													
.062	28(7) Str. per MIL-W-16878 Type B or 30 solid per MIL-W-76 Type L.W.	.037 .033	.031 .028	RM28M-1	1	.187	1.02	.076	N24RT-10	S-9	SL-40	RX16-D11	
.062	26 per MIL-W-16878 or 24 per MIL-W-16878 or MIL-W-76	.062	.035	RM24M-9	1	.188	1.02	1.01	N24RT-10	S-9	SL-40	RX16-D11	
.062	22 per MIL-W-16878 or MIL-W-5086 or 20 per MIL-W-16878	.062	.046	RM20M-13	2	.188	1.02	1.16	N24RT-10	S-10	SL-40	RX16-D11	
.062	22-20 per MIL-W-16878, MIL-W-76 or MIL-W-5086	.090	.060	RM20M-12	2	.188	1.02	.116	N24RT-10	S-10	SL-40	RX16-D11	
.062	20-16 per MIL-W-16878 MIL-W-76 or MIL-W-5086	—	—	RM16M-23	3	.281	.102	.101	N16RT-21	S3-1	SL-39	RX16-D11	
.062	#28-30 sol Solderless Wrap			RM20M-12G-4	—	—	1.81		.025 Sq. Post			RX16-D11	

Sockets

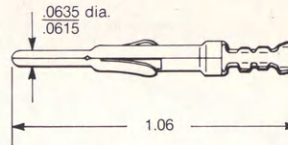
.062	28(7) Str. per MIL-W-16878 Type B or 30 solid per MIL-W-76 Type L.W.	.037 .033	.031 .028	RC28M-1	4	.187	.71	.076	N24RT-10	S-9	SL-40	RX16-D11
.062	26 per MIL-W-16878 or 24 per MIL-W-16878 or MIL-W-76	.062	.035	RCM24M-9	4	.188	.71	.101	N24RT-10	S-9	SL-40	RX16-D11
.062	22 per MIL-W-16878 or MIL-W-5086 or 20 per MIL-W-16878	.062	.046	RC20M-13	5	.188	.71	.116	N20RT-30	S-10	SL-40	RX16-D11
.062	22-20 per MIL-W-16878, MIL-W-76 or MIL-W-5086	.090	.060	RC20M-12	5	.188	.71	.116	N20RT-30	S-10	SL-40	RX16-D11
.062	20-16 per MIL-W-16878 MIL-W-76 or MIL-W-5086	—	—	RC16M-23	6	.281	.71	.101	N16RT-21	S3-1	SL-39	RX16-D11
.062	#28-30 sol Solderless Wrap			RC20M-12G-4	7	—	1.50		.025 Sq. Post			RX16-D11

† Wire types other than those noted may also be accommodated by contacts above. Consult Burndy, giving wire particulars.

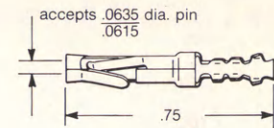
* Contacts installed by the HYPRESS YD2-1 (catalog number preceded by M-) are furnished in expendable plastic carry strips. Contacts installed by the BANDOMATIC (catalog number prefixed C-) are furnished on reels.

No. 16 Strip Formed, One-Piece, Power Contacts

Low-cost one-piece contacts are formed of brass and available with tin or gold plate finishes. Three sizes accommodate #16 stranded through #26 solid or stranded. They are supplied 3,000 to a reel and installed with the Burndy Hyfematic installation machine. To order loose piece contacts, insert "L" after the M in the part no. shown. The hand crimp tool for loose piece contacts is No. Y14MS.

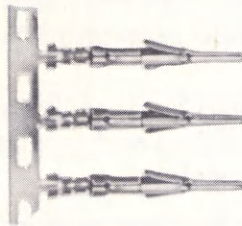


Pins

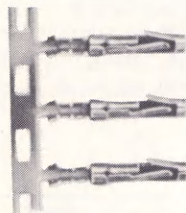


Sockets

Pins



Sockets



Wire Range	Insulation Range	Catalog Number	Plating	Installation Tools		
				M8ND/Y8ND Die Set Cat. No.	UTM-2 Crimp Mechanism	Extraction Tool
#24-#26 Sol & Str.	.038"-.062"	SM24M-6D27	.000005 min. gold over .00020 silver	N24RT-11	CM11G1	RX16-D11
	.038"-.062"	SM24M-6D29	.000030 min. gold over .00020 silver	N24RT-11	CM11G1	RX16-D11
	.038"-.062"	SM24M-6D45	.000050 min. gold over .000075 nickel	N24RT-11	CM11G1	RX16-D11
	.038"-.062"	SM24M-6TK6	Tin Plate	N24RT-11	CM11G1	RX16-D11
#20-#22 Sol & Str.	.046"-.082"	SM20M-6D27	.000005 min. gold over .00020 silver	N20RT-29	CM11G1	RX16-D11
	.046"-.082"	SM20M-6D29	.000030 min. gold over .00020 silver	N20RT-29	CM11G1	RX16-D11
	.046"-.082"	SM20M-6D45	.000050 min. gold over .000075 nickel	N20RT-29	CM11G1	RX16-D11
	.046"-.082"	SM20M-6TK6	Tin Plate	N20RT-29	CM11G1	RX16-D11
#16-#18 Str.	—	SM16M-6D27	.000005 min. gold over .00020 silver	N16RT-24	CM11	RX16-D11
	—	SM16M-6D29	.000030 min. gold over .00020 silver	N16RT-24	CM11	RX16-D11
	—	SM16M-6D45	.000050 min. gold over .000075 nickel	N16RT-24	CM11	RX16-D11
	—	SM16M-6TK6	Tin Plate	N16RT-24	CM11	RX16-D11
#24-#26 Sol. & Str.	.035"-.062"	SC24M-6D27	.000005 min. gold over .00020 silver	N24RT-11	CM11G1	RX16-D11
	.035"-.062"	SC24M-6D29	.000030 min. gold over .00020 silver	N24RT-11	CM11G1	RX16-D11
	.035"-.062"	SC24M-6D45	.000050 min. gold over .000075 nickel	N24RT-11	CM11G1	RX16-D11
	.035"-.062"	SC24M-6TK6	Tin Plate	N24RT-11	CM11G1	RX16-D11
#20-#22 Sol. & Str.	.046"-.082"	SC20M-6D27	.000005 min. gold over .00020 silver	N20RT-29	CM11G1	RX16-D11
	.046"-.082"	SC20M-6D29	.000030 min. gold over .00020 silver	N20RT-29	CM11G1	RX16-D11
	.046"-.082"	SC20M-6D45	.000050 min. gold over .000075 nickel	N20RT-29	CM11G1	RX16-D11
	.046"-.082"	SC20M-6TK6	Tin Plate	N20RT-29	CM11G1	RX16-D11
#16-#18 Str.	—	SC16M-6D27	.000005 min. gold over .00020 silver	N16RT-24	CM11	RX16-D11
	—	SC16M-6D29	.000030 min. gold over .00020 silver	N16RT-24	CM11	RX16-D11
	—	SC16M-6D45	.000050 min. gold over .000075 nickel	N16RT-24	CM11	RX16-D11
	—	SC16M-6TK6	Tin Plate	N16RT-24	CM11	RX16-D11

No. 16 Formed Contacts, Two-Piece, Strip-Fed

Strip-fed No. 16 HYFEN contacts, .0625 diameter, are formed of sheet, copper base alloy and are gold or tin plated. The contact retaining spring forms a closed entry cup on the socket. Four size contacts accommodate No. 14 through No. 26 wire, solid or stranded. Contacts are packaged 3,000 to a reel, allowing long runs between loading on the HYFEMATIC automatic installation machine. To order loose piece contacts, insert "L" after the M in the part no. shown. The hand crimp tool for loose piece contacts is No. Y14MS.

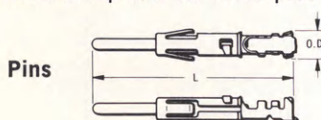
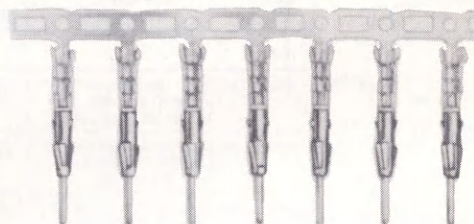


Fig. 1

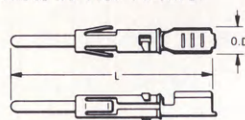
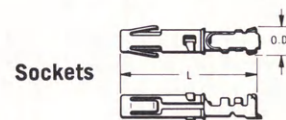


Fig. 2



Sockets

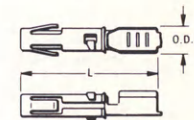


Fig. 3

Fig. 4

Fig.	Nom. Dia.	Wire Size† and Type	Cable Insulation Accom.		Contact Catalog Number*		Dimensions in Inches			Installation Tools		Extraction Tool
			Max.	Min.	Gold Plated	Tin Plated	Cable Strip Length	L	O.D.	M8ND/Y8ND Die Set Cat. No.	UTM-2 Crimp Mechanism	
Pins												
1	.062	26-24 AWG	.062	.035	SM24M-1	SM24M-ITK6	.156	1.05	.128	N24RT-11	CM11G1	RX16-D11
1	.062	22-20 AWG	.082	.046	SM20M-1	SM20M-ITK6	.156	1.05	.139	N20RT-29	CM11G1	RX16-D11
2	.062	18-16 AWG	.125	—	SM16M-1	SM16M-ITK6	.250	1.05	.12	N16RT-24	CM11	RX16-D11
2	.062	14 AWG	.125	—	SM14M-1	SM14M-ITK6	.250	1.05	.13	N14RT-13	CM11	RX16-D11
Sockets												
3	.062	26-24 AWG	.062	.035	SC24M-1	SC24M-ITK6	.156	.71	.128	N24RT-11	CM11G1	RX16-D11
3	.062	22-20 AWG	.082	.046	SC20M-1	SC20M-ITK6	.156	.71	.139	N20RT-29	CM11G1	RX16-D11
4	.062	18-16 AWG	.125	—	SC16M-1	SC16M-ITK6	.250	.71	.12	N16RT-24	CM11	RX16-D11
4	.062	14 AWG	.125	—	SC14M-1	SC14M-ITK6	.250	.71	.13	N14RT-13	CM11	RX16-D11

† Wire types other than those listed may also be accommodated by contacts above. Consult Burndy, giving wire particulars.

* Contacts are furnished on a strip to be installed by the HYFEMATIC automatic installation machines.

Multi-Piece Subminiature Coaxial Contacts

Contact kits are available for all coaxial cables shown. The inner pin and outer female body and components, RCDX60-2, RMD26L-1, RCDXB055-1 and YOC-074, are packaged in KIT RCDXK-1.

The inner socket and outer male body and components, RMDX60-2, RFD26-1, RMDXB055-3, and YOC-074, are packaged in KIT RMDXK-10.

The contacts for subminiature coaxial cable, shielded cable, and twisted pair wires consist of an inner pin/socket and an

outer male/female body. The thermoplastic insulating bushing in the outer body is designed to accept and permanently retain the inner contact.

Tin-plated, corrosion-resistant outer ferrules hold the outer braid to the outer contacts and act as an insulation support to ensure against bending and vibration stresses. The inner and the outer conductor are crimped individually, thereby enabling inspection of both critical crimp points.

Pins

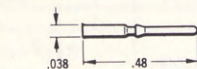


Fig. 1

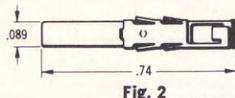


Fig. 2

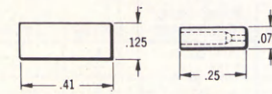


Fig. 3

Fig. 4

Sockets

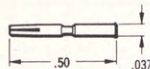


Fig. 5

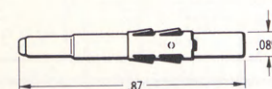


Fig. 6

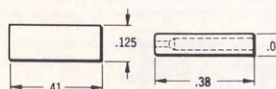


Fig. 7

Fig. 8

Cable*	Contact for Inner Conductor				Contact for Outer Braid						Extraction Tool
	Catalog Number	Fig. No.	Crimp Tool M10S-1 Die Set	Stop Bushing	Outer Male/Female Catalog Number	Fig. No.	HYRING Catalog Number	Fig. No.	Crimp Tool M10S-1 Die Set	Stop Bushing	
RG161/U RG179A/U RG187/U	RMD26L-1	1	S-26D2	SL-46-D2	RCDX60-2	2	YOC-074	3	S-22-1	SL-47-1	RX16-D11
RG174/U RG188/U Amphenol 21-598	RMD26L-1	1	S-26D2	SL-46-D2	RCDX60-2	2	YOC-074	3	S-22-1	SL-47-1	RX16-D11
RG178A/U RG196/U	RMD26L-1	1	S-23D2	SL-46-D2	RCDX60-2	2	YOC-074 RCDXB055-1	4 4	S-22-1 S-22-1	SL-47-1 SL-47-1	RX16-D11 RX16-D11
RG161/U RG179A/U RG187/U	RFD26L-1	5	S-23D2	SL-46-D2	RMDX60-2	6	YOC-074	7	S-22-1	SL-47-1	RX16-D11
RG174/U RG188/U Amphenol 21-598	RFD26L-1	5	S-26D2	SL-46-D2	RMDX60-2	6	YOC-074	7	S-22-1	SL-47-1	RX16-D11
RG178A/U RG196/U	RFD26L-1	5	S-23D2	SL-46-D2	RMDX60-2	6	YOC-074 RMDXB055-3	7 8	S-22-1 S-22-1	SL-47-1 SL-47-1	RX16-D11 RX16-D11

* Wire types other than those listed may also be accommodated by these contacts. Consult your local Burndy representative, giving particulars.

Performance Characteristics

Operating voltage between inner and outer contact: 230 volts DC sea-level working voltage

Test potential between inner and outer contact: 500 volts AC 60 cycles for one minute

Operating temperature: -55°C to +125°C

Contact retention in panel: 15 pounds minimum

Contact voltage drop (maximum): 25 millivolts at 1 ampere for inner and outer contacts

Multi-Piece Twisted Pair Contacts

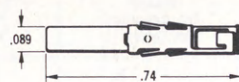


Fig. 2

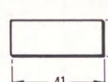


Fig. 3

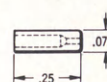


Fig. 4

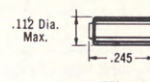


Fig. 5

Pins

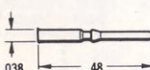


Fig. 1

Sockets

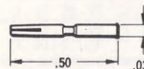


Fig. 6

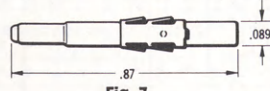


Fig. 7

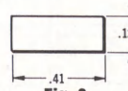


Fig. 8

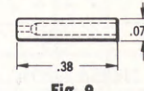


Fig. 9

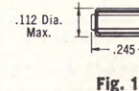
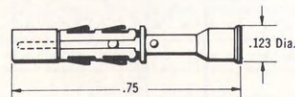


Fig. 10

Cable	Contact for Inner Conductor				Contact for Outer Braid						Extraction Tool
	Catalog Number	Fig. No.	Crimp Tool M10S-1 Die Set	Stop Bushing	Outer Male/Female Catalog Number	Fig. No.	HYRING Catalog Number	Fig. No.	Crimp Tool M10S-1 Die Set	Stop Bushing	
2 #24 Sol. or Str.	RMD26L-1	1	S-26D2	SL-46-D2	RCDX60-2	2	YOC-074	3	S-22-1	SL-47-1	RX16-D11
2 #26 Str. Twisted Pair							RCDXB055-1 YORX090	4 5	S-22-1 S-22-1	SL-47-1 SL-47-1	RX16-D11 RX16-D11
2 #24 Sol. or Str.	RFD26L-1	6	S-26D2	SL-46-D2	RMDX60-2	7	YOC-074	8	S-22-1	SL-47-1	RX16-D11
2 #26 Str. Twisted Pair							RMDXB055-3 YORX090	9 10	S-22-1 S-22-1	SL-47-1 SL-47-1	RX16-D11 RX16-D11

Male Contact, Unshielded to Shielded Conductors



Pin Catalog	Wire Accom.	Crimp Tool M10S-1		Extraction Tool
		Die Set	Stop Bushing	
RM24L-2	One #24 solid or stranded or one #26 stranded	S-42	SL-49	RX16-D11

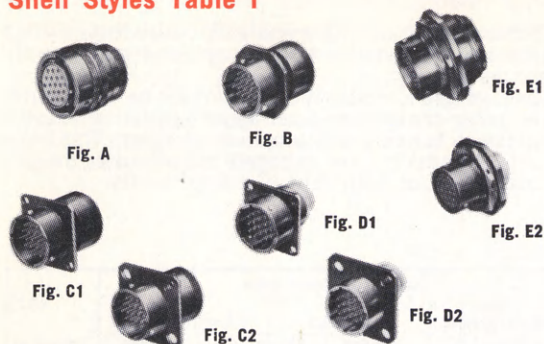
Shell Styles Table I


	Fig. No.	Solder Bantam		Smooth (Crimp) Bantam	
		Burndy	MIL-C-26482 Equivalent	Burndy	MIL-C-26482 Equivalent
Straight Plug	A	06	MS3116	6	MS3126
Receptacles	B	01	MS3111	1	MS3121
Cable connecting	C1	00	MS3110	0	MS3120
Flange (wall mount)	C2	00-H2	—	8	MS3128
Large flange (rear panel mount)	D1	02	MS3112E	2	MS3122E
Box mount flange	D2	02-H2	—	7	MS3127E
Large box mount flange	E1	07	MS3114	4	MS3124
Jam nut (rear panel mount)	E2	07A	—	3	—
Jam nut rear panel mount (without termination options available)	Not shown	07P	MS3114P	—	—
Jam Nut rear panel mount (for potting)	Not shown	07E	MS3114E	—	—
Jam nut rear panel mount (with wire sealing grommet)	Not shown	—	—	—	—

Terminations Table II


	Fig. No.	Solder Bantam		Smooth Bantam	
		Burndy	MIL-C-26482 Equivalent	Burndy	MIL-C-26482 Equivalent
Conduit cable/MS3057 cable clamp	4	A	—	A	—
Potting boot	3	P	P	P	P
Environment resisting grommet wire seal	1	E	E	E	E
Strain relief clamps	2	AC	—	—	—
• General duty	Not shown	PC	—	—	—
• Potting type	Not shown	EC	F	F	F
• Wire sealing	Not shown	L	—	L	—
• Right angle (elbow)	Not shown	J	—	—	—
• Compression clamp	Not shown	JF	—	—	—
• Compression clamp plus external strain relief clamp similar to Fig. 2.	Not shown	—	—	—	—

Note 1. Terminations are not available for shell styles 02-H2, 02 and 07A.
 Note 2. "A" indicates connector furnished with standard contacts per MIL-C-23216. Size and number of contacts and spares is in accordance with the insert arrangement and MIL-C-26482. Substitute "1" for the "A" to order the connector without contacts or for connectors shipped with special or coaxial contacts. Consult the factory for the catalog number variation. See pages 616 and 617 for typical choices.
 Note 3. Terminations are not available for shell styles 7, 2 and 3.
 Note 4. Terminations are not available for MS3112E.
 Note 5. Terminations are not available for MS3127E and MS3122E.
 Note 6. Alternate to "N" polarization, see Table III.

Ordering Information
**Solder Bantam
Burndy Order No.**

B Solder Bantam	T TRI-LOK Bayonet Coupling	01 Shell Style Table I	P Termination Class, Table II Note 1	14 Shell Size See Table III	5 Insert Arrangement See Table III	P Contact Style P = Pin S = Socket	W Insert Position (Polarization) Note 6
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**MIL-C-26482
Equivalents
(Solder)**

MS3110 Military Shell Style (Solder) Table I	F Termination Class Table II Note 4	8 Shell Size See Table III	4 Insert Arrangement See Table III	S Contact Style P = Pin S = Socket	W Insert Position (Polarization) Note 6
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**Smooth Bantam
Burndy Order No.**

L Smooth Bantam	14 Shell Size See Table III	T TRI-LOK Bayonet Coupling	1 Shell Style Table I	P Termination Class, Table II Note 3	5 Insert Arrangement See Table III	P Contact Style P = Pin S = Socket	W Insert Position (Polarization) Note 6	A Note 2
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**MIL-C-26482
Equivalents
(Crimp)**

MS3128 Military Shell Style (Smooth) Table I	F Termination Class Table II Note 5	14 Shell Size See Table III	5 Insert Arrangement See Table III	P Contact Style P = Pin S = Socket	W Insert Position (Polarization) Note 6
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Shell Size/Insert Arrangement Table III

Shell Size	8	10	12	14	16	18	20	22	24
Insert	8-2 8-3 8-4	10-6 10-8 10-9	12-3 12-8 12-10 12-14	14-5 14-9 14-12 14-15 14-18 14-19	16-8 16-14 16-23 16-26 16-95	18-11 18-30 18-32 18-85 18-88	20-16 20-24 20-25 20-27 20-39 20-41 20-90	22-19 22-21 22-32 22-34 22-36 22-37 22-41 22-55 22-95 22-96	24-27 24-61
MIL-C-26482	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •
Avail. In									
Crimp	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •
Solder	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •
Polarization In Addition To "N" Avail.									
W	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •
X	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •
Y	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •
Z	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •
13	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •

* Approved MIL-C-26482 connector insert arrangements

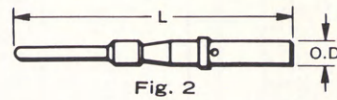
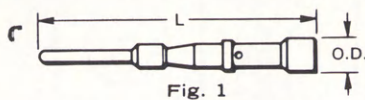
Shell Sizes Insert Arrangements

#8 Size			#10 Size		#12 Size			
8-2 2 No. 20 CONTACTS SERVICE RATING 1	8-3 3 No. 20 CONTACTS SERVICE RATING 1 MS33708-3	8-4 4 No. 20 CONTACTS SERVICE RATING 1 MS33708-4	10-6 6 No. 20 CONTACTS SERVICE RATING 1 MS33709-6	10-9B 6 No. 20 CONTACTS SERVICE RATING 1	12-3 3 No. 16 CONTACTS SERVICE RATING 2 MS33710-3	12-8 8 No. 20 CONTACTS SERVICE RATING 1	12-10 10 No. 20 CONTACTS SERVICE RATING 1 MS33710-10	12-14 14 No. 20 CONTACTS SERVICE RATING 1
#14 Size						#16 Size		
14-5 5 No. 16 CONTACTS SERVICE RATING 2 MS33711-5	14-12 4 No. 16 CONTACTS 8 No. 20 CONTACTS SERVICE RATING 1 MS33711-12	14-9 5 No. 20 Contacts 4 No. 12 Power Contacts or 4 No. 12 Coax Contacts Service Rating 1	14-15 1 No. 16 CONTACT 14 No. 20 CONTACTS SERVICE RATING 1 MS33711-15	14-18 18 No. 20 CONTACTS SERVICE RATING 1	14-19 19 No. 20 CONTACTS SERVICE RATING 1 MS33711-19	16-8 8 No. 16 CONTACTS SERVICE RATING 2 MS33712-8	16-14 8 No. 20 Contacts 6 No. 12 Power Contacts or 6 No. 12 Coax Contacts Service Rating 1	
#16 Size (cont'd)			#18 Size					
16-23 1 No. 16 CONTACT 22 No. 20 CONTACTS SERVICE RATING 1	16-26 26 No. 20 CONTACTS SERVICE RATING 1 MS33712-26	16-95 6 No. 20 CONTACTS 2 No. 8 CONTACTS 2 No. 8 COAX CONTACTS AND COAX	18-11 11 No. 16 CONTACTS 16 No. 20 CONTACTS SERVICE RATING 2 MS33713-11	18-30 1 No. 16 CONTACT 29 No. 20 CONTACTS SERVICE RATING 1	18-32 32 No. 20 CONTACTS SERVICE RATING 1 MS33713-32	18-85 5 No. 20 Contacts 8 No. 12 Power Contacts or 8 No. 12 Coax Contacts Service Rating 1	18-88 4 No. 20 Contacts 4 No. 8 Coax Contacts Service Rating 1	
#20 Size								
20-16 16 No. 16 CONTACTS SERVICE RATING 2 MS33714-16	20-24 24 No. 20 CONTACTS SERVICE RATING 1	20-25 25 No. 20 CONTACTS SERVICE RATING 1	20-27 27 No. 20 CONTACTS SERVICE RATING 1	20-39 2 No. 16 CONTACTS 37 No. 20 CONTACTS SERVICE RATING 1 MS33714-39	20-41 41 No. 20 CONTACTS SERVICE RATING 1 MS33714-41	20-90 3 No. 20 Contacts 12 No. 12 Power Contacts or 12 No. 12 Coax Contacts Service Rating 1		
#22 Size								
22-19 19 No. 12 CONTACTS SERVICE RATING 1 AND/OR COAX	22-21 21 No. 16 CONTACTS SERVICE RATING 2 MS33715-21	22-32 32 No. 20 CONTACTS SERVICE RATING 1	22-34 34 No. 20 CONTACTS SERVICE RATING 1	22-36 36 No. 20 CONTACTS SERVICE RATING 1	22-37 6 No. 16 CONTACTS 31 No. 20 CONTACTS SERVICE RATING 1	22-41 27 No. 20 CONTACTS 14 No. 18 CONTACTS SERVICE RATING 1 MS33715-41		
#22 Size (cont'd)			#24 Size					
22-55 55 No. 20 CONTACTS SERVICE RATING 1 MS33715-55	22-95 26 No. 20 CONTACTS SERVICE RATING 1 AND/OR COAX	22-96 7 No. 8 CONTACTS SERVICE RATING COAX	24-61 61 No. 20 CONTACTS SERVICE RATING 1 MS33716-61	24-27 11 No. 20 Contacts 16 No. 12 Power Contacts or 16 No. 12 Coax Contacts Service Rating 1				

Service Ratings		Test Voltage RMS	
Service rating 1	Sea Level	1500	
	70,000 Ft.	375	
Service rating 2	Sea Level	2300	
	70,000 Ft.	550	

Service Ratings		Test Voltage RMS	
Service rating 1	Sea Level	1500	
	70,000 Ft.	375	
Service rating 2	Sea Level	2300	
	70,000 Ft.	550	

Crimp Contacts Smooth Configuration



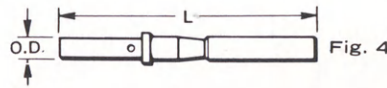
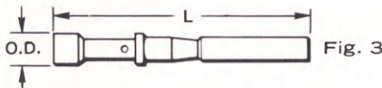
PIN CONTACTS

	Contact Size (Note 1)	Pin Dia.	Description	Contact Catalog Number	Dimensions in Inches				Installation Tools			Extraction Tool Cat. No.	Insertion Tool Cat. No.	TYPES I & II; MIL-W-16878 TYPE E Wire Size and Type
									HYTOOL M10S		BANDOMATIC Mach. No. AM2-2 Crimping Kit Cat. No. N			
					Fig. No.	Cable Length Strip	L	O.D.	Die Set Cat. No.	Stop Bushing				
STANDARD CONTACTS PER MIL-C-23216	20	.040	MS3192A20A	LRM20W-5	1	.218	.92	.105	S-6A	SL-3A	—	RX20-24	RTM20-5	No. 20, No. 22, No. 24
				CLRM20W-5					—	—	AMK-2			No. 22
	16	.062	MS3192-16A	LRM16M-5	2	.281	.91	.103	S-7-1	SL-2	—	RX16-7	RTM16-2	No. 16, No. 18, No. 20
				CLRM16M-5					—	—	AMK-1			No. 20
	12	.094	MS3192-12A	LRM12Z-5	2	.281	.91	.150	S-8	SL-4	—	RX12-7	RTM12-5	No. 12, No. 14

CONTACT VARIATIONS FOR OTHER APPLICATIONS	16	.062	No. 16 Contact For No. 24-No. 20 Wire Size	LRM20M-1	1	.218	.91	.105	S-6A	SL-64	—	RX16-7	RTM20-5	No. 20, No. 22, No. 24
	20	.040	No. 20 Contact For No. 20-No. 16 Wire Size	LRM16W-2	2	.281	.92	.103	S-7-1	SL-44	—	RX20-24	RTM16-3	No. 16, No. 18, No. 20
	20	.040	MATERIAL ALUMEL	LRM20W-9	1	*	.91	.105	S-6A	SL-3A	—	RX20-24	RTM20-5	Thermo-Couple Wire Per MIL-W-5846 Type I Class D, E
	20	.040	MATERIAL CHROMEL	LRM20W-10	1	*	.91	.105	S-6A	SL-3A	—	RX20-24	RTM20-5	
	20	.040	MATERIAL IRON	LRM20W-11	1	*	.91	.105	S-6A	SL-3A	—	RX20-24	RTM20-5	
	20	.040	MATERIAL CONSTANTAN	LRM20W-12	1	*	.91	.105	S-6A	SL-3A	—	RX20-24	RTM20-5	

* Cable strip length .218 if cable jacket outer dia. is less than .093. .281 if cable outer dia. is .093 or greater.

Note 1: Contact sizes are compatible with insert arrangements shown.



SOCKET CONTACTS

	Contact Size (Note 1)	Pin Dia.	Description	Contact Catalog Number	Dimensions in Inches				Installation Tools			Extraction Tool Cat. No.	Insertion Tool Cat. No.	TYPES I & II; MIL-W-16878 TYPE E Wire Size and Type
					Fig. No.	Cable Length Strip	L	O.D.	HYTOOL M10S		BANDOMATIC Mach. No. AM2-2 Crimping Kit Cat. No. N			
									Die Set Cat. No.	Stop Bushing				
STANDARD CONTACTS PER MIL-C-23216	20	.040	MS3193A20A	LRC20W-5	3	.218	.85	.105	S-6A	SL-3A	—	RX20-24	RTM20-5	No. 20, No. 22, No. 24
		CLRC20W-5	—	—					AMK-2					
	16	.062	MS3193-16A	LRC16M-5	4	.281	.84	.103	S-7-1	SL-2	—	RX16-7	RTM16-2	No. 16, No. 18, No. 20
				CLRC16M-5					—	—	AMK-1			
	12	.094	MS3193-12A	LRC12Z-5	4	.281	.84	.150	S-8	SL-4	—	RX12-7	RTM12-5	No. 12, No. 14

CONTACT VARIATIONS FOR OTHER APPLICATIONS	16	.062	No. 16 Contact For No. 24-No. 20 Wire Size	LRC20M-1	3	.218	.85	.105	S-6A	SL-64	—	RX16-7	RTM20-5	No. 20, No. 22, No. 24
	20	.040	No. 20 Contact For No. 20-No. 16 Wire Size	LRC16W-2	4	.281	.85	.103	S-7-1	SL-44	—	RX20-24	RTM16-3	No. 16, No. 18, No. 20
	20	.040	MATERIAL ALUMEL	LRC20W-9	3	*	.85	.105	S-6A	SL-3A	—	RX20-24	RTM20-5	Thermo-Couple Wire Per MIL-W-5846 Type I Class D, E
	20	.040	MATERIAL CHROMEL	LRC20W-10	3	*	.85	.105	S-6A	SL-3A	—	RX20-24	RTM20-5	
	20	.040	MATERIAL IRON	LRC20W-11	3	*	.85	.105	S-6A	SL-3A	—	RX20-24	RTM20-5	
	20	.040	MATERIAL CONSTANTAN	LRC20W-12	3	*	.85	.105	S-6A	SL-3A	—	RX20-24	RTM20-5	

* Cable strip length .218 if cable jacket outer dia. is less than .093. .281 if cable outer dia. is .093 or greater.

Note 1: Contact sizes are compatible with insert arrangements shown.

SMOOTH BANTAM CONTACTS

Burndy contacts have a true smooth configuration which conforms to MS3192 and MS3193 and which meet or exceed MIL-C-23216. Both pins and sockets are machined of high conductivity copper alloy material. Extra heavy gold plating is used to protect against corrosion and to assure high conductivity. The socket is closed entry and has a completely enclosed beryllium copper internal spring to prevent tearing or damaging of the insert or grommet when inserting or extracting socket contacts.



BANDOMATIC

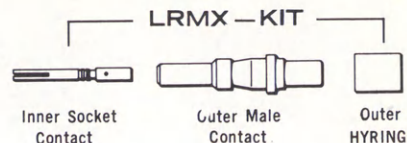
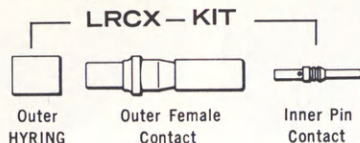
The automatic four indent, BANDOMATIC machine meets the applicable sections of MIL-T-22520 and MS-3191. It is recommended for high speed, high quantity production. Crimping rates are better than two thousand per hour.

M10S-1 MANUAL TOOLING

The Burndy M10S-1, four indent full cycling, ratchet controlled hand tool is a high reliability installation tool, conforming to the requirements of MIL-T-22520 and MS-3191. These specifications cover the crimp and tool configuration required to install the Military Standard contact barrel specified in MS-3190. All contact sizes covered by MIL-C-23216 can be accommodated.



Coaxial Contacts

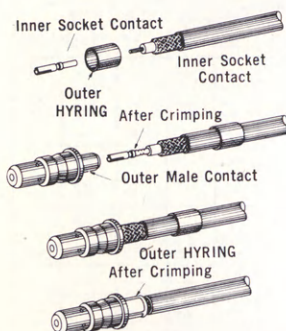


COAXIAL CONTACTS

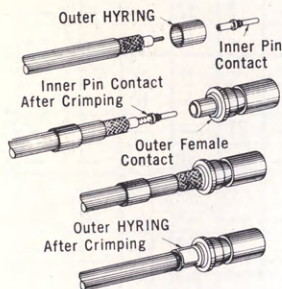
Each kit has all components necessary to make a complete contact assembly including individual sealing bushing where required.

Coaxial male assemblies are used in a pin (P) insert connector, coaxial female assemblies are used in a socket (S) insert connector.

Typical LRMX Assembly



Typical LRCX Assembly



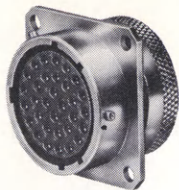
TYPICAL ASSEMBLY PROCEDURE

This is the installation procedure for no. 22 shielded wire. Installation procedure for other sizes of miniature coaxial cable or for twisted pair varies slightly but is equally simple. Specific instructions are packed with each size contact.

- Strip cable to recommended dimensions.
- Slide outer HYRING onto cable jacket. Assemble inner contact to center conductor and crimp with recommended tooling.
- Push inner contact into outer contact until it snap-locks into place.
- Slide outer HYRING forward over braid until it stops against shoulder of outer contact. Crimp with recommended tooling.

CONTACT SIZE	Accommodated Coaxial Cable	Cable Data				Impedance (Ohms)	Kit For Coaxial Male Assy.	Kit For Coaxial Female Assy.	MS10S HYTOOL				Extraction Tool	Insertion Tool
		O.D. of Jacket	No. of Shlds.	Dielectric O.D.	Inner Conductor Size				Coax Outer Contact	Coax Inner Contact	Die Set	Stop Bushing		
No. 12 CONTACTS OUTER CONFIGURATIONS DESIGNED PER MS3192 MS3193 FITS ALL INSERTS WHICH ACCOMMODATE 12 CONTACT	RG161/U	.090	1	.057	#30 AWG 7/.004	70	LRMXZK-5	LRCXZK-5	S-30	SL-58	S-35	SL-72	RX12-7	RTM12-4
	RG174/U	.100	1	.060	#26 AWG 7/.0067	50	LRMXZK-5	LRCXZK-5	S-30	SL-58	S-35	SL-72	RX12-7	RTM12-4
	RG179/U	.105	1	.063	#30 AWG 7/.004	75	LRMXZK-5	LRCXZK-5	S-30	SL-58	S-35	SL-72	RX12-7	RTM12-4
	RG180/U	.141	1	.103	#30 AWG 7/.0039	95	LRMXZK-5	LRCXZK-5	S-30	SL-58	S-35	SL-72	RX12-7	RTM12-4
	RG195/U	.110 Max.	1	.060	#30 AWG 7/.004	75	LRMXZK-5	LRCXZK-5	S-30	SL-58	S-35	SL-72	RX12-7	RTM12-4
	RG188/U	.110 Max.	1	.060	#26 AWG 7/.0067	50	LRMXZK-5	LRCXZK-5	S-30	SL-58	S-35	SL-72	RX12-7	RTM12-4
	RG187/U	.155 Max.	1	.102	#30 AWG 7/.004	95	LRMXZK-5	LRCXZK-5	S-30	SL-58	S-35	SL-72	RX12-7	RTM12-4
	RG316/U	.102	1	.060	#26 AWG 7/.0067	50	LRMXZK-5	LRCXZK-5	S-30	SL-58	S-35	SL-72	RX12-7	RTM12-4
	RG178/U	.079 Max.	1	.036	#30 AWG 7/.004	50	LRMXZK-4	LRCXZK-4	S-44	SL-58	S-35	SL-72	RX12-7	RTM12-4
	RG196/U	.080 Max.	1	.034	#30 AWG 7/.004	50	LRMXZK-4	LRCXZK-4	S-44	SL-58	S-35	SL-72	RX12-7	RTM12-4
	No. 22 SHIELDED MIL-C-27500 GD/FW C135	.094 Max.	1	.048 .052	#22 AWG 19/.0063	—	LRMXZK-6	LRCXZK-6	S-30	SL-58	S-31	SL-72	RX12-7	RTM12-4

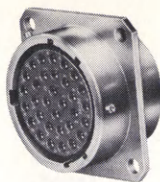
No. 8 CONTACTS DESIGNED FOR USE WITH COAXIAL CABLE	RG58/U	.195	1	.116	#20 AWG	50	LRMXSK-1	LRCXSK-1	S-33	Not Req'd.	S-31	SL-59	RX8-3	RTM8-1
	RG58A/U													
	RG58B/U													
	RG58C/U													
	RG29/U	.184 Max.	1	.116	#20 AWG	50	LRMXSK-1	LRCXSK-1	S-33	Not Req'd.	S-31	SL-59	RX8-3	RTM8-1
	RG174/U	.100	1	.060	#26 AWG 7/.0067	50	LRMXSK-9	LRCXSK-9	S-28	Not Req'd.	S-35	SL-59	RX8-3	RTM8-1
	RG179/U	.105	1	.063	#30 AWG 7/.004	75	LRMXSK-9	LRCXSK-9	S-28	Not Req'd.	S-35	SL-59	RX8-3	RTM8-1
	RG187/U	.110 Max.	1	.060	#30 AWG 7/.004	75	LRMXSK-9	LRCXSK-9	S-28	Not Req'd.	S-35	SL-59	RX8-3	RTM8-1
	RG188/U	.110 Max.	1	.060	#26 AWG 7/.0067	50	LRMXSK-9	LRCXSK-9	S-28	Not Req'd.	S-35	SL-59	RX8-3	RTM8-1
	RG316/U	.110 Max.	1	.060	#26 AWG 7/.0067	50	LRMXSK-9	LRCXSK-9	S-28	Not Req'd.	S-35	SL-59	RX8-3	RTM8-1
	RG141/U	.190	1	.116	SILVER PLATED 1/.0359	50	LRMXSK-1	LRCXSK-1	S-33	Not Req'd.	S-32	SL-59	RX8-3	RTM8-1
	RG180/U	.141	1	.103	#30 AWG 7/.0039	95	LRMXSK-2	LRCXSK-2	S-29	Not Req'd.	S-35	SL-59	RX8-3	RTM8-1
	RG195/U	.155 Max.	1	.102	#30 AWG 7/.004	95	LRMXSK-2	LRCXSK-2	S-29	Not Req'd.	S-35	SL-59	RX8-3	RTM8-1
	RAYCHEM No. 82-404	.132 Max.	2	.084 .092	#30 AWG 7/.004	95	LRMXSK-2	LRCXSK-2	S-29	Not Req'd.	S-35	SL-59	RX8-3	RTM8-1
	RAYCHEM No. 28-403	.132 Max.	2	.082 .090	#22 AWG 19/.0063	50	LRMXSK-7	LRCXSK-7	S-29	Not Req'd.	S-31	SL-59	RX8-3	RTM8-1
	No. 22 SHIELDED MIL-C-27500 22AIT2	.096	1	.068	#22 AWG 19/.0063	—	LRMXSK-3	LRCXSK-3	S-28	Not Req'd.	S-31	SL-59	RX8-3	RTM8-1
	No. 20 SHIELDED MIL-C-27500 20AIT2	.106	1	.078	#20 AWG 19/.0079	—	LRMXSK-3	LRCXSK-3	S-28	Not Req'd.	S-31	SL-59	RX8-3	RTM8-1
	No. 22 SHIELDED MIL-C-27500 GD/FW C135	.094 Max.	1	.048 .052	#22 AWG 19/.0063	—	LRMXSK-3	LRCXSK-3	S-28	Not Req'd.	S-31	SL-59	RX8-3	RTM8-1

**Shell
Styles**

**Wall Mounting
Flange Receptacle**

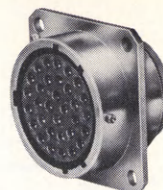
Burndy Cat. No.	MS Number
CT00	MS27472
CTS00	MS27479 •


**Cable Connecting
Receptacle**

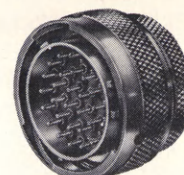
Burndy Cat. No.
CT01
CTS01


**Box Mounting
Flange Receptacle**

Burndy Cat. No.	MS Number
CT02	MS27499
CTS02	MS27504 •


**Box Mounting Flange
Receptacle Long Grommet**

Burndy Cat. No.	MS Number
CTL2	MS27513
CTSL2	—


Straight Plug

Burndy Cat. No.	MS Number
CT06	MS27473
CTS06	MS27480 •

MIL-C-38999 Connectors presently available from Burndy are Series II. Burndy CT series provides connectors with a maximum operating temperature of 150°C (302°F), or 200°C (392°F) depending on plating finish.

Burndy CTS series connectors are designed to allow operation up to a maximum operating temperature of 200°C (392°F).

Shell Sizes — Insert Arrangements

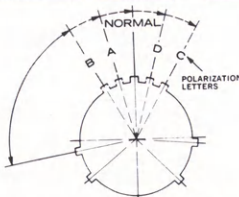
Shell Size	Insert Arrangement	Insert Per MIL-STD-1560 Sec.	Service Rating	Contacts						
				Total No.	Quantity — Each Size					
					12	16	20	22	22M	22D
8	8-6	201	M	6	—	—	—	—	6	—
	8-35		M	6	—	—	—	—	—	6
	8-44		M	4	—	—	—	4	—	—
	8-98		I	3	—	—	3	—	—	—
10	10-5	202	I	5	—	—	5	—	—	—
	10-13		M	13	—	—	—	—	13	—
	10-35		M	13	—	—	—	—	—	13
	10-98		I	6	—	—	6	—	—	—
	10-99		I	7	—	—	7	—	—	—
12	12-4	203	I	4	—	4	—	—	—	—
	12-8		I	8	—	—	8	—	—	—
	12-22		M	22	—	—	—	—	22	—
	12-35		M	22	—	—	—	—	—	22
	12-98		I	10	—	—	10	—	—	—
14	14-5	204	II	5	—	5	—	—	—	—
	14-15		I	15	—	1	14	—	—	—
	14-18		I	18	—	—	18	—	—	—
	14-35		M	37	—	—	—	—	37	—
	14-37		M	37	—	—	—	—	37	—
	14-97		I	12	—	4	8	—	—	—
16	16-6	205	I	6	6	—	—	—	—	—
	16-8		II	8	—	8	—	—	—	—
	16-26		I	26	—	—	26	—	—	—
	16-35		M	55	—	—	—	—	55	—
	16-42		M	42	—	—	—	42	—	—
	16-55		M	55	—	—	—	—	55	—
	16-99		I	23	—	2	21	—	—	—
18	18-11	206	II	11	—	11	—	—	—	—
	18-28		I	28	—	2	26	—	—	—
	18-30		I	30	—	1	29	—	—	—
	18-32		I	32	—	—	32	—	—	—

Shell Size	Insert Arrangement	Insert Per MIL-STD-1560 Sec.	Service Rating	Total No.	Quantity — Each Size					
					12	16	20	22	22M	22D
					12	16	20	22	22M	22D
18	18-35	206	M	66	—	—	—	—	—	66
	18-45		M	67	—	—	—	—	—	67
	18-53		M	53	—	—	—	53	—	—
	18-66		M	66	—	—	—	—	66	—
	18-67		M	67	—	—	—	—	67	—
20	20-1	207	M	79	—	—	—	—	79	—
	20-2		M	65	—	—	—	65	—	—
	20-16		II	16	—	16	—	—	—	—
	*20-24		I	24	—	—	24	—	—	—
	*20-25		I	25	—	—	25	—	—	—
	*20-27		I	27	—	—	27	—	—	—
	20-35		M	79	—	—	—	—	79	—
	20-39		I	39	—	2	37	—	—	—
	20-41		I	41	—	—	41	—	—	—
	22-1	208	M	100	—	—	—	—	100	—
22	22-2		M	85	—	—	—	85	—	—
	22-21		II	21	—	21	—	—	—	—
	22-32		I	32	—	—	32	—	—	—
	*22-34		I	34	—	—	34	—	—	—
	22-35		M	100	—	—	—	—	100	—
	*22-36		I	36	—	—	36	—	—	—
	*22-53		I	53	—	—	53	—	—	—
	22-55		I	55	—	—	55	—	—	—
	*22-97		I	16	—	16	—	—	—	—
	*22-99		II	11	—	11	—	—	—	—
24	24-1	209	M	128	—	—	—	—	128	—
	24-2		M	100	—	—	—	100	—	—
	*24-4		I	56	—	8	48	—	—	—
	24-24		I	24	12	12	—	—	—	—
	24-29		I	29	—	29	—	—	—	—
	24-35		M	128	—	—	—	—	128	—
	24-61		I	61	—	—	61	—	—	—

• Obsolete numbers
* Not tooled

Shell Keying

Positive polarization is accomplished by five integral keys and matching keyways which provide proper alignment before coupling nut or contacts engage. Alternate polarizations achieved by position of master key or keyway. Relation of insert to other four keys or keyways does not change. All shell sizes, except size 8, offer four alternate polarizations (A, B, C or D) to normal. Size 8 provides two alternate polarizations (A and D) to normal.

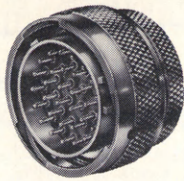


RELATIVE POSSIBLE POSITION OF ROTATED MASTER KEYWAY FRONT FACE OF RECEPTACLE SHOWN

Service Rating

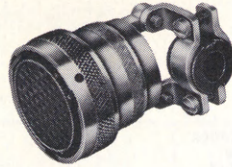
Service Rating	Test Voltage — AC rms					
	Sea Level		70,000 Feet		110,000 Feet	
	Mated	Unmated	Mated	Unmated	Mated	Unmated
M	1300	1300	800	350	800	200
I	1800	1800	1000	400	1000	200
II	2300	2300	1000	500	1000	200

Shell Styles



Straight Plug with
RFI Grounding

Burndy Cat. No.	MS Number
CTG6	MS27484



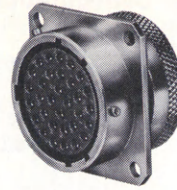
Plug with 90° Elbow and
Strain Relief

Burndy Cat. No.	MS Number
CT08	MS27500
CTS08	—



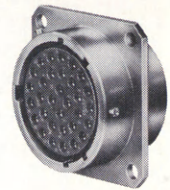
Jam Nut
Receptacle

Burndy Cat. No.	MS Number
CT07	MS27474
CTS07	MS27481 •



Back Panel Wall Mounting
Flange Receptacle

Burndy Cat. No.	MS Number
CTP0	MS27497
CTSP0	—



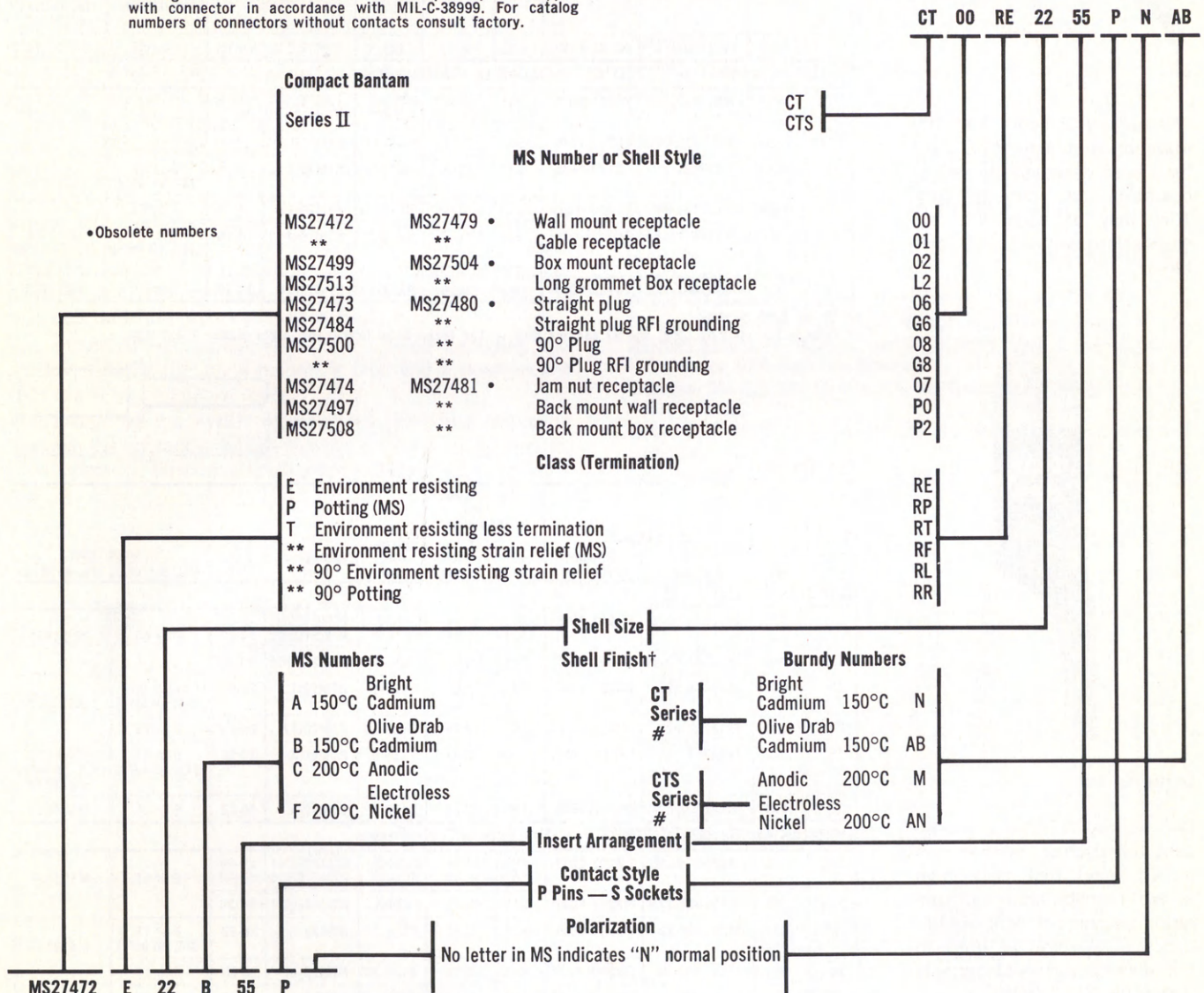
Back Panel Box Mounting
Flange Receptacle

Burndy Cat. No.	MS Number
CTP2	MS27508
CTSP2	—

How to Order

Catalog numbers shown include contacts plus spares shipped with connector in accordance with MIL-C-38999. For catalog numbers of connectors without contacts consult factory.

Burndy Part Number



MS Part Number

† Other shell finishes are available. Consult your local Burndy representative.
• No MS part numbers for these items.

Bright Cadmium supplied with CT Series and Anodic with CTS Series if no finish number specified.

Crimp Contacts — Smooth Configuration

Burdny Insertion and Extraction Tools

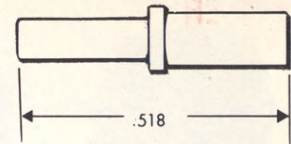


The Burdny Compact BANTAM insertion and extraction tools have been designed for ease of operation and dependability. They may be used with the appropriate MIL-C-38999 contacts.



Crimping Tool

The Burdny M10S-1 eight in-ident full cycling, ratchet controlled hand tool is a high reliability installation tool conforming to requirement of MIL-C-22520. It may be used to crimp a wide variety of contacts shown for MIL-C-38999.



Socket Contact

Con- tact Size	Pin Dia.	Socket Contacts†		Installation Tool HYTOOL M10S-1		Extraction Tool	Insertion Tool	Wire Size AWG	Wire Type	
		MS Part No.	Burdny Part. No.	Die Set	Stop Bushing				MIL-W-16878	MIL-W-22759

Contacts for Series II

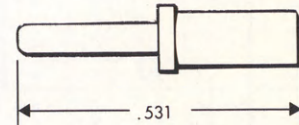
22D	.030	MS27491-22D	TC22Y-2DJ5	S63 S61	SL94 SL94	RX24-3 RX24-3	RTM24D3D1 RTM24D3D1	28-26 24-22	E or EE	MS21985
22M	.030	MS27491-22M	TC24Y-1DJ5	S49	SL81	RX24-3	RTM24D3D1	28-24	E or EE (24, 26 only)	MS18113
22	.030	MS27491-22	TC22Y-1DJ5	S49	SL81	RX22-1	RTM22-1	26-22		
20	.040	MS27491-20	TC20W-1DJ5	S45	SL74	RX20-36	RTM20-17	24-20	E or EE	MS21985 (16, 18 only) MS18113
16	.062	MS27491-16	TC16M-1DJ5	S50	SL83	RX16-9	RTM16-4	20-16	E or EE (16, 18 only)	
12	.094	MS27491-12	TC12Z-1DJ5	S53	SL86	RX12-9	RTM12-8	14-12	E or EE	

Contacts for Series II (200°C) — Obsolete MS Numbers

22D	.030	•MS27492-22D	TC22Y-2DJ5	S63 S61	SL94 SL94	RX24-3 RX24-3	RTM24D3D1 RTM24D3D1	28-26 24-22	E or EE	MS21985
22M	.030	•MS27492-22M	TC24Y-1DJ5	S49	SL81	RX24-3	RTM24D3D1	28-24	E or EE (24, 26 only)	MS18113
22	.030	•MS27492-22	TC22Y-1DJ5	S49	SL81	RX22-1	RTM22-1	26-22		
20	.040	•MS27492-20	TC20W-1DJ5	S45	SL74	RX20-36	RTM20-17	24-20	E or EE	MS21985 (16, 18 only) MS18113
16	.062	•MS27492-16	TC16M-1DJ5	S50	SL83	RX16-9	RTM16-4	20-16	E or EE (16, 18 only)	
12	.094	•MS27492-12	TC12Z-1DJ5	S53	SL86	RX12-9	RTM12-8	14-12	E or EE	

• Obsolete MS number.

† Strip length for 22D, 22M, and 22 contact size — .157 max.; Strip length for larger sizes — .229 max.



Pin Contact

Con- tact Size	Pin Dia.	Pin Contacts†		Installation Tool HYTOOL M10S-1		Extraction Tool	Insertion Tool	Wire Size AWG	Wire Type	
		MS Part No.	Burdny Part. No.	Die Set	Stop Bushing				MIL-W-16878	MIL-W-22759

Contacts for Series II

22D	.030	MS27493-22D	TM22Y-2DJ5	S63 S61	SL94 SL94	RX24-3 RX24-3	RTM24D3D1 RTM24D3D1	28-26 24-22	E or EE	MS21985
22M	.030	MS27493-22M	TM24Y-1DJ5	S49	SL81	RX24-3	RTM24D3D1	28-24	E or EE (24, 26 only)	MS18113
22	.030	MS27493-22	TM22Y-1DJ5	S49	SL82	RX22-1	RTM22-1	26-22		
20	.040	MS27493-20	TM20W-1DJ5	S45	SL74	RX20-36	RTM20-17	24-20	E or EE	MS21985 (16, 18 only) MS18113
16	.062	MS27493-16	TM16M-1DJ5	S50	SL83	RX16-9	RTM16-4	20-16	E or EE (16, 18 only)	
12	.094	MS27493-12	TM12Z-1DJ5	S53	SL86	RX12-9	RTM12-8	14-12	E or EE	

Contacts for Series II (200°C) — Obsolete MS Numbers

22D	.030	•MS27494-22D	TM22Y-2DJ5	S63 S61	SL94 SL94	RX24-3 RX24-3	RTM24D3D1 RTM24D3D1	28-26 24-22	E or EE	MS21985
22M	.030	•MS27494-22M	TM24Y-1DJ5	S49	SL81	RX24-3	RTM24D3D1	28-24	E or EE (24, 26 only)	MS18113
22	.030	•MS27494-22	TM22Y-1DJ5	S49	SL82	RX22-1	RTM22-1	26-22		
20	.040	•MS27494-20	TM20W-1DJ5	S45	SL74	RX20-36	RTM20-17	24-20	E or EE	MS21985 (16, 18 only) MS18113
16	.062	•MS27494-16	TM16M-1DJ5	S50	SL83	RX16-9	RTM16-4	20-16	E or EE (16, 18 only)	
12	.094	•MS27494-12	TM12Z-1DJ5	S53	SL86	RX12-9	RTM12-8	14-12	E or EE	

• Obsolete MS number.

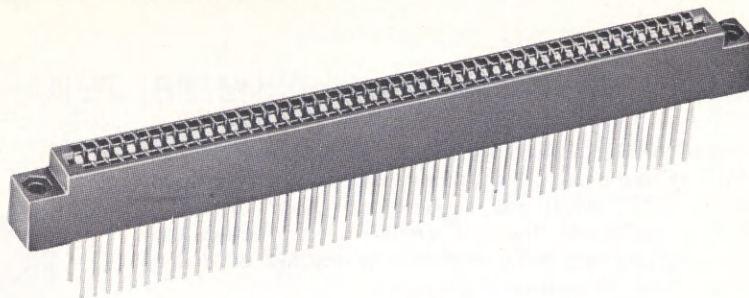
† Strip length for 22D, 22M, and 22 contact size — .157 max.; Strip length for larger sizes — .229 max.

SOLDERLESS WRAP EDGE-ON

Printed Circuit Connectors

Type PWBH

.100 Spacing



The Burndy type PWBH solderless wrap printed circuit connector, a versatile member of the EDGE-ON family of connectors, is fully interchangeable with connectors mounted per MIL-C-21097. It can be terminated with hand tools or with semi-automatic or fully automatic terminating systems for larger volume requirements.

The PWBH connectors can be furnished in any size from 6 to 50 contact positions and accommodates .054" to .071" PC board thicknesses. A preload feature provides optimum mating forces over the full range of board thicknesses. A variety of tail lengths can be made available including .200" for solder-dip applications.

The bifurcated contacts, spaced .100" center-to-center, are manufactured of phosphor bronze, gold plated over nickel to assure excellent conductivity. Domed contact geometry of each leg assures concentrated forces with minimum wear. "Contact retention" design allows easy removal and replacement of contacts damaged by handling. Contacts can be replaced up to three times in each bay.

Two mounting ear configurations are offered including the stocked bulkhead or plate mounting type and a flush mount type available on special order.

The design of the PWBH incorporates polarizing key slots between the contact positions thereby allowing full utilization of all contacts. A nylon polarizing keys is supplied at no extra cost.

Material

Connector Body: 30% glass-filled polyester to MIL-M-24519 — Color Black

Spring Contact: Phosphor Bronze, Grade A per Spec. QQ-3-750

20 Microinches Gold Plated over Nickel on Contact Area

5 Microinches Gold Plated over Nickel For Remainder

Polarizing Key: Nylon, Color Yellow

Performance Characteristics

Working Voltage: 230 VAC, RMS, 330 VDC

Current Rating: 5 Amperes

Operating Temperatures: -55°C to +125°C

Contact Resistance: 30 Milliohms Max. at 5 Amps

Dry Circuit: 25% Variance Max. on Contact Resistance

Insulation Resistance: 5000 Megohms Minimum

Dielectric Withstanding Voltage: 650 Volts RMS at Sea Level

Contact Retention: 8 lbs. Minimum

Durability: 500 Insertions & Withdrawals without Impairing Electrical Performance of Connector

Withdrawal Force: 2 Oz. Minimum per Contact Position

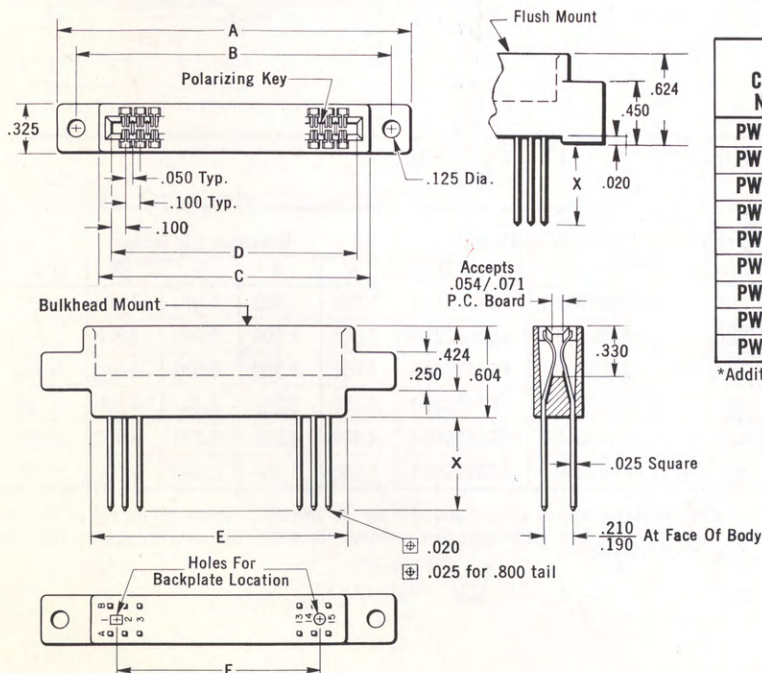
Temperature Cycling: MIL-STD-202, Method 107; Normal Mating

Moisture Resistance: Humidity per MIL-STD-202, Method 103; Insulation Resistance 1000 Megohms Minimum

Vibration: MIL-STD-202, Method 204, No Discontinuity Greater Than One Microsecond

Shock: MIL-STD-202, Method 202; No Discontinuity Greater Than One Microsecond

Solderless Wrap Strip Off Force: 3 lbs. Minimum with #30 Gauge Wire per EIA RS-280-A



Catalog* Number	Dimensions				
	A ±.020	B ±.010	C ±.010	D ±.010	E ±.010
PWBH4DD10-	1.835	1.575	1.260	1.100	1.150
PWBH4DD15-	2.335	2.075	1.760	1.600	1.650
PWBH4DD22-	3.035	2.775	2.460	2.300	2.350
PWBH4DD25-	3.335	3.075	2.760	2.600	2.650
PWBH4DD30-	3.835	3.575	3.260	3.100	3.150
PWBH4DD36-	4.435	4.175	3.860	3.700	3.750
PWBH4DD40-	4.835	4.575	4.260	4.100	4.150
PWBH4DD43-	5.135	4.875	4.560	4.400	4.450
PWBH4DD50-	5.835	5.575	5.260	5.100	5.150

*Additional sizes available. Consult Burndy.

Connector Catalog Number	Mounting Configuration	Dim. X ±.020
PWBH4DD___-3	Bulkhead	.200
PWBH4DD___-4	Bulkhead	.800
PWBH4DD___-5	Bulkhead	.630
PWBH4DD___-11	Flush Mount	.180
PWBH4DD___-12	Flush Mount	.610
PWBH4DD___-13	Flush Mount	.780

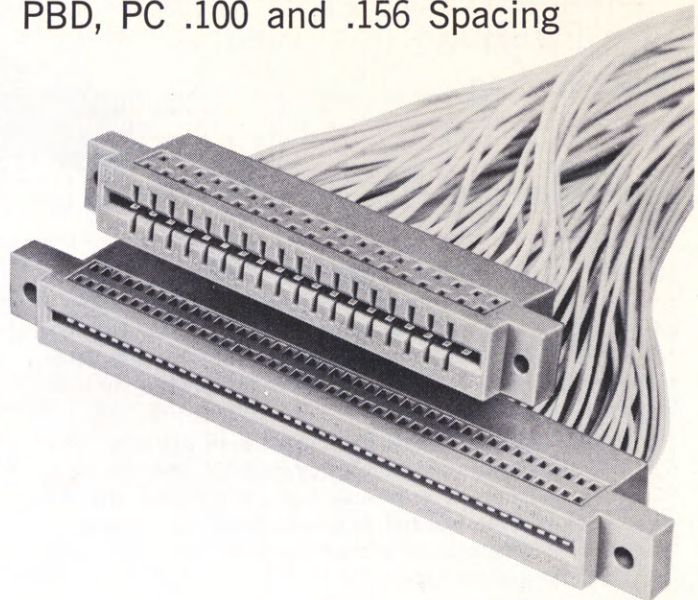
HYFEN EDGE-ON

Printed Circuit Connectors Types PB, PBD, PC .100 and .156 Spacing

The Burndy HYFEN (crimp type) EDGE-ON connectors, types PB, PBD, PC are designed to accommodate both single-sided (.058" to .072" thick) and double-sided (.054" to .072") printed circuit boards. They are similar in construction and use except that the PBD connector is molded of diallyl phthalate rather than a polycarbonate.

Crimp HYTAB contacts for wire sizes #28 through #20 can be quickly snapped into a PB, PBD or PC connector. They are easily removed from the connectors with a simple extraction tool. Since the inserted crimp contacts are recessed in these connectors, insulating sleeves are not needed.

Each spring contact position can accommodate one or two crimp HYTAB contacts. The HYTAB contacts can be automatically installed by the high-speed HYFEMATIC machine, or they can be hand-installed with the M8ND or Y8ND HYTOOL.



Material

Connector Body: PB and PC: Polycarbonate; PBD: Diallyl Phthalate

Spring Contacts: Beryllium copper

HYTAB Contacts: High-conductivity copper alloy

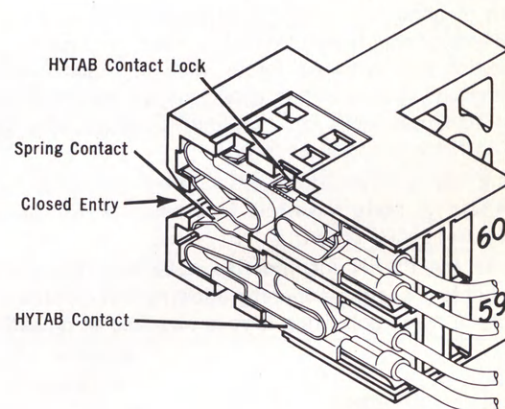
Finish: Gold plate .000030" minimum gold

HYTAB Contact Lock holds contact securely in place. Simple extraction tool, inserted from rear, releases contact.

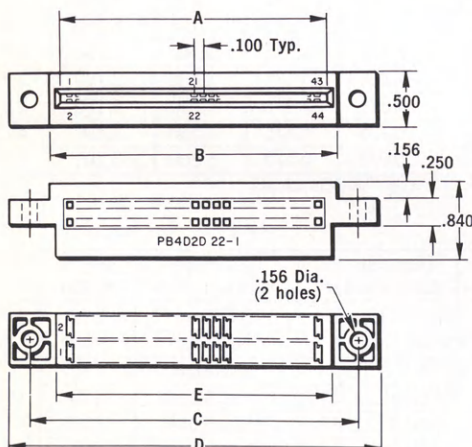
Spring Contact accordion type, gold-plated, permanently installed in connector body for maximum protection.

Closed Entry protects springs from probe damage and self-aligns warped boards.

HYTAB Contact gold-plated, automatically installed with Burndy HYFEMATIC machine. Burndy M8ND hand tool also available for wire sizes #28 through #20.



HYFEN EDGE-ON Connector, Types PB and PBD, .100 Spacing



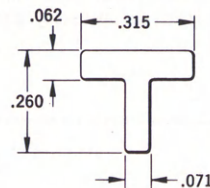
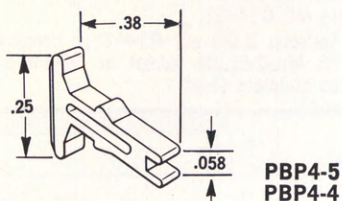
No. of Contact Positions*	Catalog Number		Dimensions in Inches				
	Double Sided	Single Sided	A	B	C	D	E
15†	PB4D2D15-1	PB4S2S15-1	1.600	1.800	2.200	2.600	1.620
22†	PB4D2D22-1	PB4S2S22-1	2.300	2.500	2.900	3.300	2.320
29	PB4D2D29-1	PB4S2S29-1	3.000	3.200	3.600	4.000	3.020
30†	PB4D2D30-1	PB4S2S30-1	3.100	3.300	3.700	4.100	3.120
43†	PB4D2D43-1	PB4S2S43-1	4.400	4.600	5.000	5.400	4.420
50	PB4D2D50-1	PB4S2S50-1	5.100	5.300	5.700	6.100	5.120

* Other sizes between 6 and 50 contact positions can be provided. Consult Burndy for particulars.
† These sizes available in a diallyl phthalate material. To order, use catalog number PBD. For example, PBD4D2D15-1.

Polarizing Keys

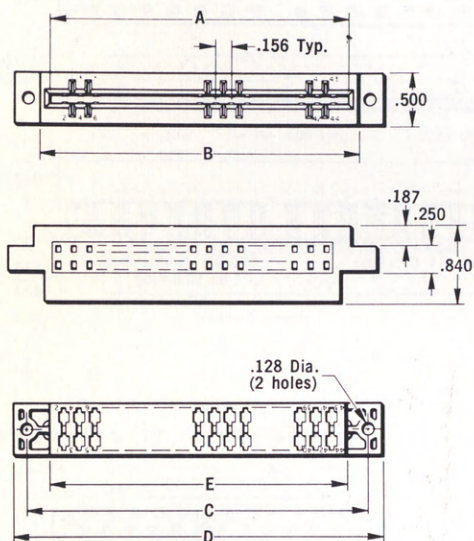
Polarizing key PBP4-5, molded of a white nylon, used with the PBD connector series, may be used in any desired contact position. Polarizing key PBP4-4 molded of a red polycarbonate, used with both the

PB and PC connectors, may be located in any desired contact position. Nylon Polarizing key PCP4-4 is used with the PC connector. It is located between contact positions.



PCP4-4

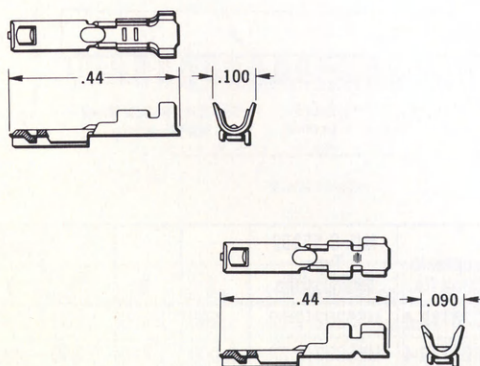
HYFEN EDGE-ON Connector, Type PC, .156 Spacing



No. of Contact Positions*	Catalog Number		Dimensions in Inches				
	Double Sided	Single Sided	A	B	C	D	E
15	PC4D2D15-4	PC4S2S15-4	2.504	2.668	2.938	3.188	2.484
19	PC4D2D19-4	PC4S2S19-4	3.128	3.292	3.562	3.812	3.108
22	PC4D2D22-4	PC4S2S22-4	3.596	3.760	4.030	4.280	3.576
30	PC4D2D30-4	PC4S2S30-4	4.844	5.008	5.278	5.528	4.824
36	PC4D2D36-4	PC4S2S36-4	5.780	5.944	6.214	6.464	5.760
43	PC4D2D43-4	PC4S2S43-4	6.872	7.036	7.306	7.556	6.852

* Other sizes between 6 and 43 contact positions can be provided. Consult Burndy for particulars.

HYTAB Contacts Type PBM



Wire Size	Mil Spec.	Catalog Number	Insulation Grip	Installation Tooling		Extraction Tool Cat. No.
				M8ND/Y8ND Die Set	HYFEMATIC M4D Die Set	
28 Str.	MIL-W-16878 Type B	PBM24-H1 SPBM24-H1*	Yes	N24PCT-5 —	— DM12-1	RX20-37
26-24 Str.	MIL-W-16878 Type B MIL-W-76 Type LW	PBM24-H1 SPBM24-H1*	Yes	N24PCT-2 —	— DM4-2	RX20-37
20-22 Str. 20-22 Sol. & Str.	MIL-W-16878 Types B, C, E, EE, F MIL-W-76 Types LW, MW	PBM20-1 SPBM20-1‡	No	N20PCT-3 —	— DM3-2	RX20-37

* HYTAB contacts furnished on reels (5000/reel) to be installed by the HYFEMATIC machine.
‡ 4000/reel.

SOLDER PLUG AND RECEPTACLE Type UPC — .150 and .100 Spacing

The Burndy UPC, an ultraminiature plug and receptacle printed circuit connector, is designed for use with printed wiring board-to-board* or multi-layered board-to-board applications. The plugs accommodate .062" thick boards, the receptacles, .094" thick boards.

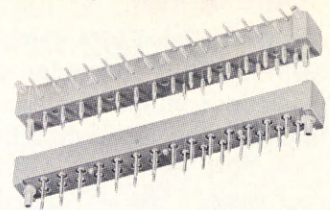
The Burndy UPC series connectors meet the electrical, mechanical and environmental performance requirements of MIL-C-55302.

Material

Connector Bodies: Glass filled diallyl phthalate per MIL-M-14F Type SDG-F Color Green

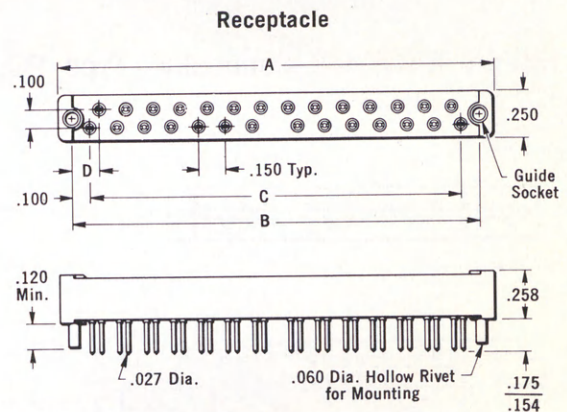
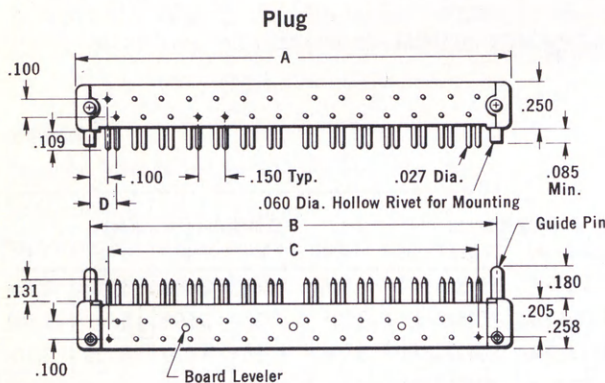
Contacts, Pin and Socket: Beryllium Copper per QQ-C-530 plated in accordance with MIL-C-55302

Guide Pins and Sockets: Brass per QQ-W-321b composition B plated in accordance with MIL-C-55302 except on 92-pin arrangement which utilizes unplated stainless steel

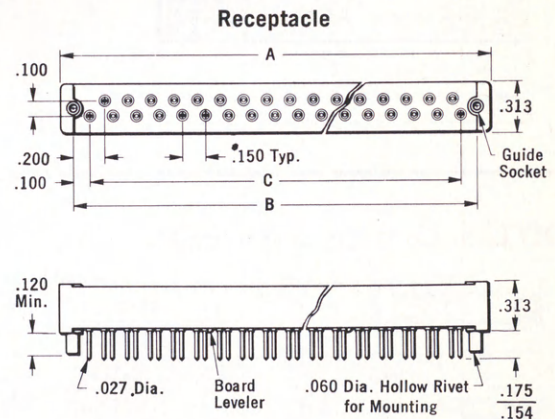
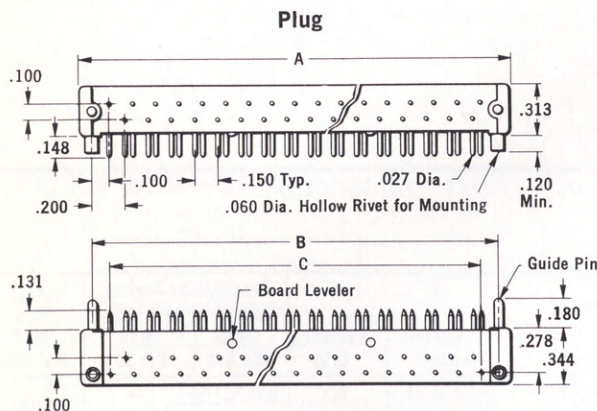


.150 Spacing Type UPC

Dimensions for 17, 23, 28 Position



Dimensions for 41 Position



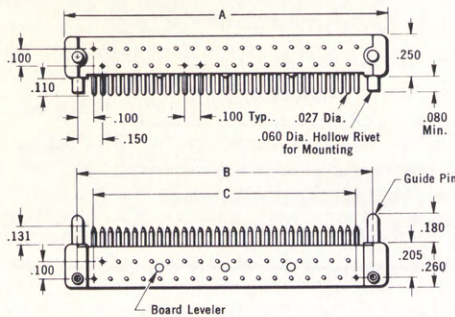
Plug

Receptacle

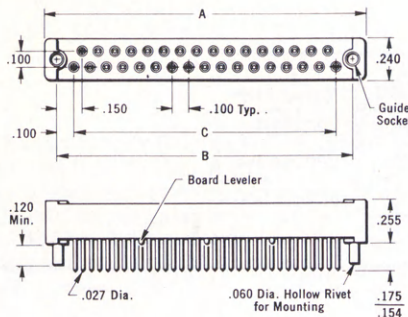
No. of Contact Positions	Plug Catalog No.	MIL-C-55302 Type Designation	A	B	C	D	No. of Contact Positions	Receptacle Catalog No.	MIL-C-55302 Type Designation	A	B	C	D
17	UPC2A17P-4	M55302/1-03	1.550	1.400	1.200	.200	17	UPC2A17R-4	M55302/2-03	1.550	1.400	1.200	.200
23	UPC2A23P-4	M55302/1-04	2.000	1.850	1.650	.200	23	UPC2A23R-4	M55302/2-04	2.000	1.850	1.650	.200
28	UPC2A28P-4	M55302/1-05	2.400	2.250	2.050	.150	28	UPC2A28R-4	M55302/2-05	2.400	2.250	2.050	.150
41	UPC2A41P-4	M55302/19-01	3.350	3.200	3.000	.100	41	UPC2A41R-4	M55302/20-01	3.350	3.200	3.000	.100

.100 Spacing Type UPC — 2 Row

Dimensions for 17, 25, 33, 41, 77 Position



Plugs



Receptacles

Plug

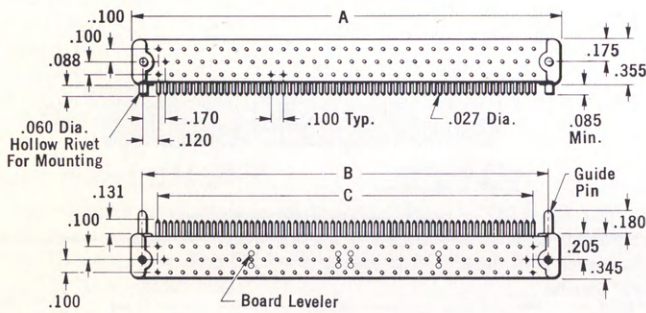
No. of Contacts	Plug Catalog No.	MIL-C-55302 Type Designation	A	B	C
17	UPC2B17P-4	M55302/4-02	1.150	1.000	.800
25	UPC2B25P-4	M55302/4-03	1.550	1.400	1.200
33	UPC2B33P-4	M55302/4-04	1.950	1.800	1.600
41	UPC2B41P-4	M55302/4-05	2.350	2.200	2.000
77	UPC2B77P-4	M55302/4-06	4.150	4.000	3.800

Receptacle

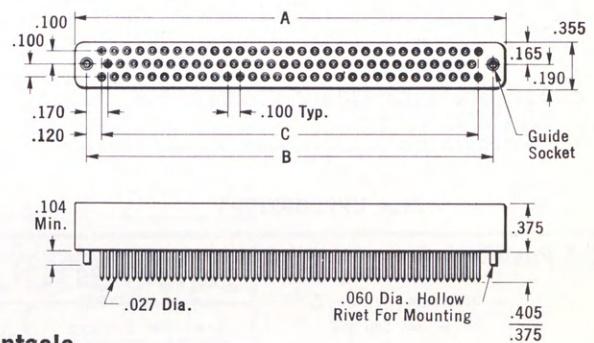
No. of Contacts	Receptacle Catalog No.	MIL-C-55302 Type Designation	A	B	C
17	UPC2B17R-4	M55302/6-02	1.150	1.000	.800
25	UPC2B25R-4	M55302/6-03	1.550	1.400	1.200
33	UPC2B33R-4	M55302/6-04	1.950	1.800	1.600
41	UPC2B41R-4	M55302/6-05	2.350	2.200	2.000
77	UPC2B77R-4	M55302/6-06	4.150	4.000	3.800

.100 Spacing Type UPC — 3 Row

Dimensions for 92 Position

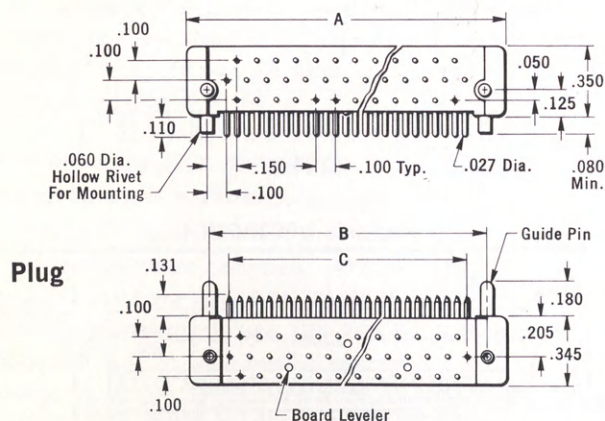


Plug

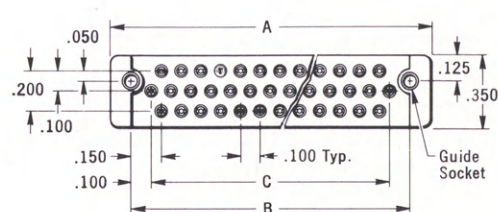


Receptacle

Dimensions for 13, 25, 37, 49, 61, 92 Position



Plug



Receptacle

Plug

No. of Contacts	Plug Catalog No.	MIL-C-55302 Type Designation	A	B	C
13	UPC3B13P-4	M55302/7-01	.800	.600	.300
25	UPC3B25P-4	M55302/7-02	1.200	1.000	.700
37	UPC3B37P-4	M55302/7-03	1.600	1.400	1.100
49	UPC3B49P-4	M55302/7-04	2.000	1.800	1.500
61	UPC3B61P-4	M55302/7-05	2.400	2.200	1.900
92	UPC3B92P-4	M55302/21-01	3.425	3.240	3.000

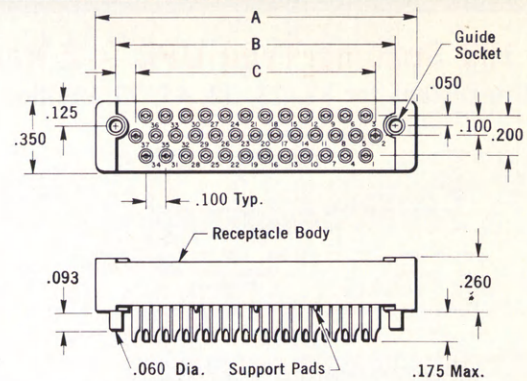
Receptacle

No. of Contacts	Receptacle Catalog No.	MIL-C-55302 Type Designation	A	B	C
13	UPC3B13R-4	M55302/8-01	.800	.600	.300
25	UPC3B25R-4	M55302/8-02	1.200	1.000	.700
37	UPC3B37R-4	M55302/8-03	1.600	1.400	1.100
49	UPC3B49R-4	M55302/8-04	2.000	1.800	1.500
61	UPC3B61R-4	M55302/8-05	2.400	2.200	1.900
92	UPC3B92R-4	M55302/22-01	3.425	3.240	3.000

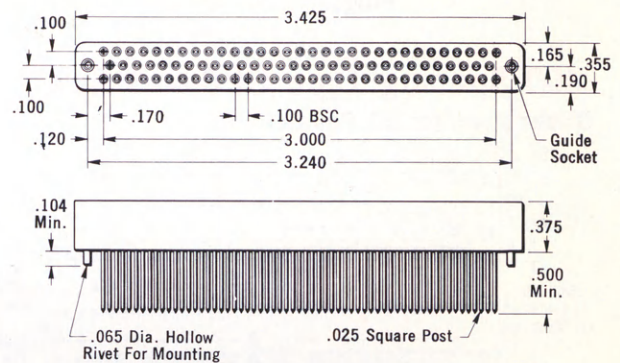
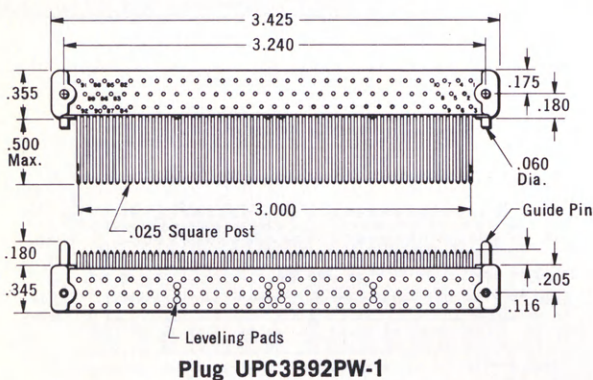
.100 Spacing Type UPC Variations

Solder Cup Termination Receptacle
Other solder cup sizes also available.

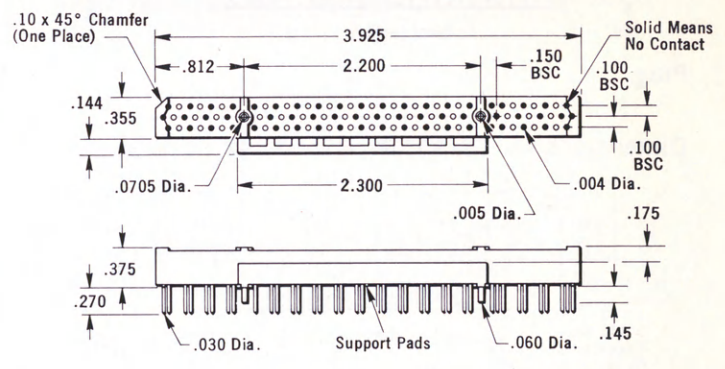
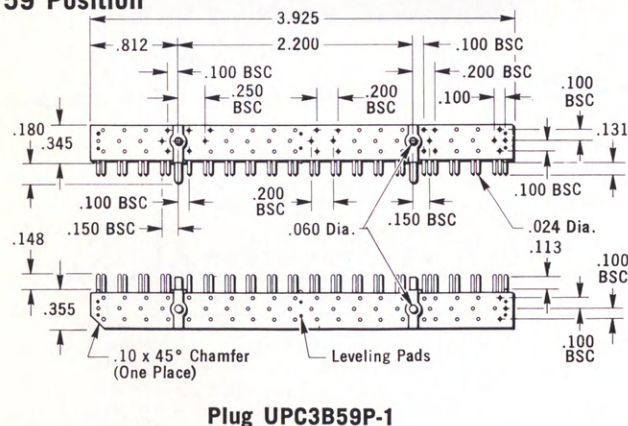
Catalog Number	No. of Contacts	A ±.005	B ±.005	C ±.008	Mating Plug
UPC3B37RS-8	37	1.600	1.400	1.200	UPC3B37P-4
UPC3B49RS-8	49	2.000	1.800	1.600	UPC3B49P-4
UPC3B61RS-8	61	2.400	2.200	2.000	UPC3B61P-4



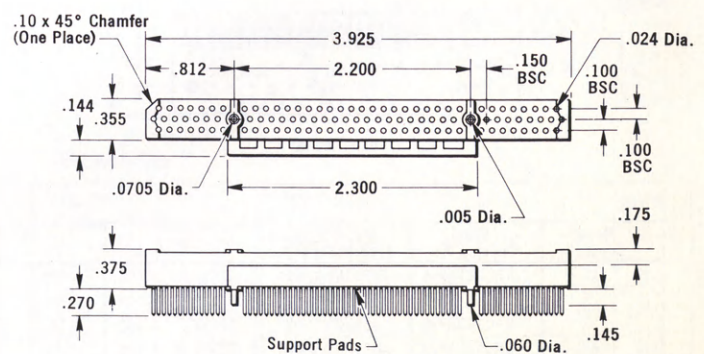
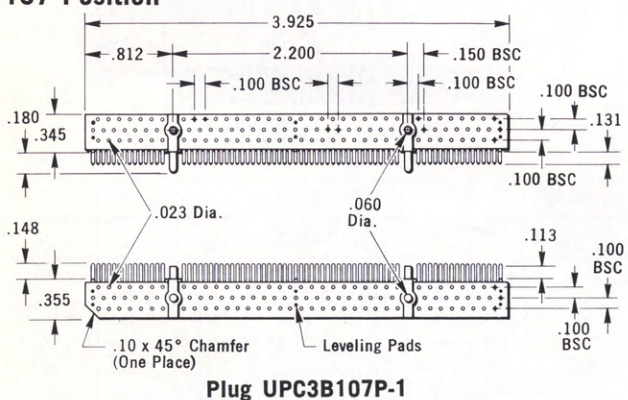
Solderless Wrap Termination



59 Position



107 Position



DUAL IN-LINE SOCKET

The new Burndy DILB-P8 series dual-in-line receptacle incorporates the latest technological advances in the development of pluggable leaded IC sockets. The DILB-P8 offers high reliability combined with low cost, easy installation and low profile design.

Low Cost Reliability

The DILB-P8 contact design is based on the patented Burndy GTH™ principle of plastic deformation to break down surface oxides. A unique contact geometry and surface metal (tin alloy) plating form gas-tight, high pressure interconnections as reliable as gold-plated systems—for as little as 1¢* a line! This new Burndy DIP socket uses tin alloy plated beryllium copper contacts for consistent performance over a continuous operating temperature from -40°C to +105°C. The Burndy DILB-P8 will accommodate IC packages of any finish—even unplated if resistance requirements permit.

Easy Installation

The unique contact design prevents wicking of solder into the contact area during the PC board flow-soldering process. The ventilated moldings with stand-offs allow easy removal of flux residue in the assembly operation. An added convenience feature on the contact terminations is an upset that serves as a receptacle hold-down device during handling and assembly. Contact cavities are chamfered for easy insertion of the IC package and a polarizing indicator is provided for proper package alignment. In addition, a new body design permits easy logic monitoring and testing devices.

Low Profile Design

The compact body design of the new Burndy DILB-P8 DIP socket provides utilization of available PC board area and a profile height of .175 maximum. The DILB-P8 series is available in a range of sizes from 8 to 40 positions.

* In volume

Material

Body: Thermoplastic polyester, glass re-inforced. Color black.

Contacts: Beryllium copper

Plating: DILB-P8 — Tin alloy postplated

Flammability Rating: UL 94 V-0

Performance Characteristics

Contact Resistance (maximum): 30 Milliohms

Test Current: 1 Ampere

Operating Temperature: Continuous -40°C to +105°C

Insulation Resistance (500 V.D.C.): 100,000 Megohms minimum

Dielectric Withstanding Voltage: 1000 Volts A.C. RMS minimum

Durability: 25 Cycles — No electrical degradation

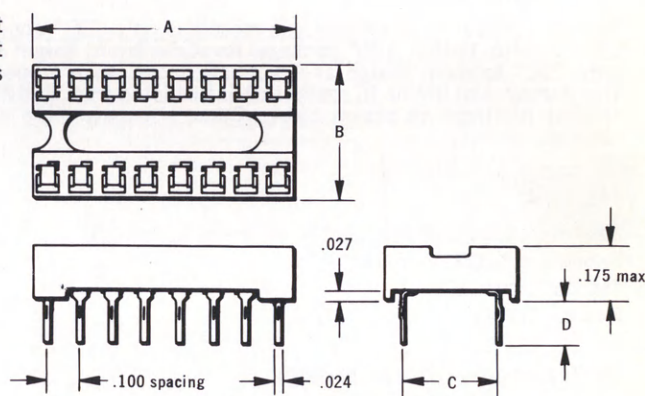
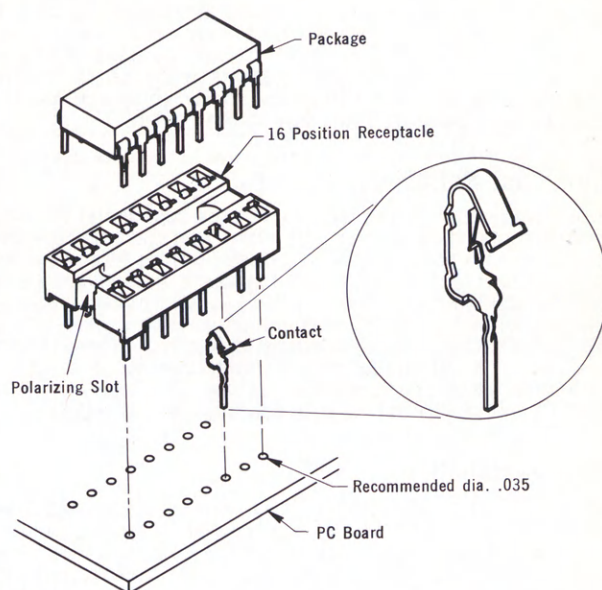
Thermal Shock: MIL-STD 202, Method 107, Condition B. No physical or electrical degradation

Moisture Resistance: MIL-STD 202, Method 106; except omit steps 7a and 7b. 300 Megohms minimum

Vibration: MIL STD 1344, Method 2005, Condition III. No electrical interruption greater than 1 microsecond

Mechanical Shock: MIL-STD 202, Method 213, Condition I. No electrical interruption greater than 1 microsecond

These performance characteristics conform to the requirements of MIL-S-83734A.



ORDERING INFORMATION

Catalog Number	No. of Contacts	Dimensions			
		A	B Max.	C ±.010	D ±.010
DILB8P-108	8	.400	.400	.300	.130
DILB14P-108	14	.700	.400	.300	.130
DILB16P-108	16	.800	.400	.300	.130
DILB18P-108	18	.900	.400	.300	.130
DILB20P-108	20	1.000	.400	.300	.130
DILB22P-108	22	1.100	.500	.400	.130
DILB24P-108	24	1.200	.700	.600	.130
DILB28P-108	28	1.400	.700	.600	.130
DILB40P-108	40	2.000	.700	.600	.130

DUAL IN-LINE SOCKET

The new Burndy dual in-line receptacle gives you all the advantages of a pluggable leaded system — easy field service, simplified testing — plus a lot of additional features not normally found in pluggable systems with leads. This new Burndy receptacle offers high reliability combined with low cost, easy installation and a low profile design.

Low Cost Reliability

The Burndy dual in-line receptacle uses base metal (tin alloy) plated contacts instead of gold plate. And the socket accepts packages with non-precious metal lead frames from a substantial cost savings over gold plated systems. And yet the Burndy dual in-line system performs as well as gold plated systems. A unique contact geometry makes highly reliable gas-tight connections that are comparable to gold. Maximum overall contact resistance is 30 milliohms at initial contact and only 50 milliohms after environmental testing. This new connectors has a flammability rating that conforms to UL 94V-0.

Easy Installation

The dual in-line receptacle design prevents wicking during soldering so circuit integrity is protected. The receptacle also features a ventilated molding to allow easy cleaning of the completed PC board assembly. And the IC package is easy to insert into the dual in-line receptacle as well. The contacts are pre-loaded to strike a precise balance that allows easy insertion while maintaining reliable electrical contact between the leads and the receptacle contacts.

Low Profile Design

The Burndy dual in-line receptacle measures only .231" above the PC board. With a .125" package, its above board height is only .280" so more design and production options are open. The Burndy dual in-line IC receptacle is available from 8 to 40 contact positions as shown below. Other sizes available on request.

Material

Body: Thermoplastic polyester, glass re-inforced. Color black

Flammability Rating: UL 94V-0

Contacts: Copper Alloy

Plating: Tin Alloy

Performance Characteristics

Contact Resistance (maximum): From the shoulder of the DIL package lead to the P.C. board end of the receptacle lead. 30 Milliohms initial and 50 Milliohms after environmental testing.

Test Current: 1 Ampere standar circuit — 10 Milliamps. - Low level circuit

Operating Temperature: Continuous -40°C to +75°C; Short time -40°C to +125°C.

Insulation Resistance: 100,000 Megohms minimum between (unmated and unmounted) adjacent contacts and 50 Milliohms after environmental testing

Dielectric Withstanding Voltage: 1000 Volts A.C. R.M.S.

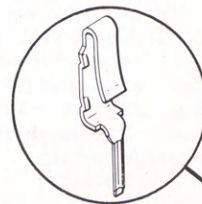
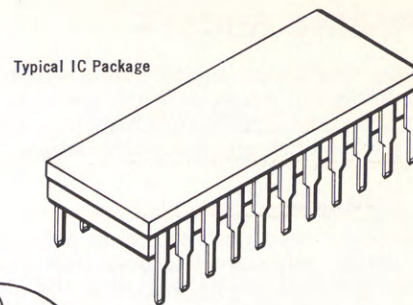
Durability: 25 Cycles — No electrical degradation

Thermal Shock: MIL-STD-202, Method 107, Condition F; except maximum temperature 125°C — No physical or electrical degradation

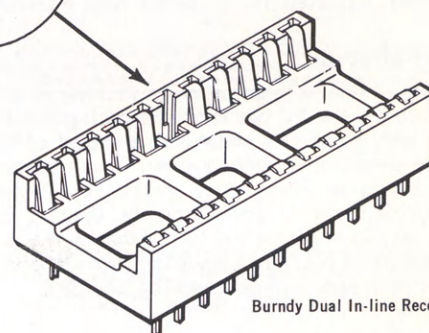
Moisture Resistance: MIL-STD-202 Method 106; except omit steps 7a and 7b. 5000 Megohms minimum insulation resistance after humidity, unmounted, unmated — 100 Megohms minimum insulation resistance after humidity, mounted to a P.C. board, unmated

Vibration: MIL-STD-1344, Method 2005, Condition III; except 3 cycles in vertical axis only. No electrical interruption greater than 1 microsecond

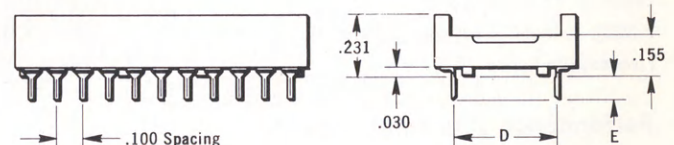
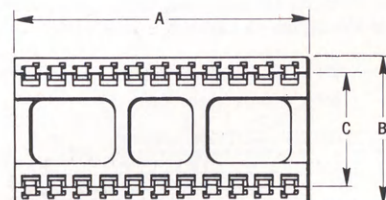
Shock: MIL-STD-202, Method 213, Condition A; no electrical interruption greater than 1 microsecond



Gas-tight Contact



Burndy Dual In-line Receptacle



ORDERING INFORMATION

Catalog Number	No. of Contacts	Dimensions				
		A Max.	B Max.	C ±.010	D ±.007	E ±.010
DILBZ8P-1	8	.430	.450	.334	.300	.130
DILBZ14P-1	14	.730	.450	.334	.300	.130
DILBZ16P-1	16	.830	.450	.334	.300	.130
DILBZ18P-1	18	.930	.450	.334	.300	.130
DILBZ22P-1	22	1.130	.550	.434	.400	.100
DILBZ24P-1	24	1.230	.750	.634	.600	.130
DILBZ28P-1	28	1.430	.750	.634	.600	.130
DILBZ36P-1	36	1.830	.750	.634	.600	.130
DILBZ40P-1	40	2.030	.750	.634	.600	.130
DILBZ28P-3	28	1.430	.775	.659	.625	.130
DILBZ40P-3	40	2.030	.775	.659	.625	.130

Low cost vinyl-insulated terminals. One piece barrel and tongue stamped from pure electrolytic copper, tin-plated to resist corrosion. Color-coded insulation sleeve fitted over barrel. Two or more

terminals can be easily stacked on a common stud. Available for high-volume production on tape mounted reels for automatic crimping. Consult factory.



Underwriters Laboratories, Inc. lists and recognizes electrical connectors for conductor sizes 22 to 2000 MCM.

Ring Tongue, Fig. A, Series BA-E

Stud Size	Catalog No.*	Dimensions in Inches			
		C	Z Min.	Y Max.	L Max.
Wire Range: 22-16		Max. Insul. Dia.: .145"		Sleeve Color: Red	
1, 2	BA16E2	.22	.17	.61	.71
3, 4	BA16E4	.22	.17	.61	.71
5, 6	BA16E6	.25	.18	.62	.74
8	BA16E8	.31	.26	.70	.85
10	BA16E10	.31	.26	.70	.85
12, ¼	BA16E14	.40	.36	.79	.99
⅜	BA16E516	.53	.45	.88	1.15
¾	BA16E38	.53	.45	.88	1.15

Wire Range: 16-14 Max. Insul. Dia.: .180" Sleeve Color: Blue					
1, 2	BA14E2	.22	.17	.61	.71
3, 4	BA14E4	.22	.17	.61	.71
5, 6	BA14E6	.25	.18	.62	.74
8	BA14E8	.31	.26	.70	.85
10	BA14E10	.31	.26	.70	.85
12, 1/4	BA14E14	.40	.36	.79	.99
3/8	BA14E516	.53	.45	.88	1.15
3/8	BA14E38	.53	.45	.88	1.15

Wire Range: 12-10 Max. Insul. Dia.: .260" Sleeve Color: Yellow					
3, 4	BA10E4	.31	.20	.75	.91
5, 6	BA10E6	.31	.20	.75	.91
8	BA10E8	.36	.26	.81	1.00
10	BA10E10	.36	.26	.81	1.00
12, 1/4	BA10E14	.53	.40	.95	1.22
3/8	BA10E516	.53	.40	.95	1.22
3/8	BA10E38	.53	.45	1.00	1.27

Ring Tongue (Rectangular), Fig. B, Series BA-ES

Stud Size	Catalog No.*	Dimensions in Inches			
		C	Z Min.	Y Max.	L Max.
Wire Range: 22-16 Max. Insul. Dia.: .145" Sleeve Color: Red					
1, 2	BA16ES2	.17	.23	.66	.75
4-6	BA16ES6	.28	.23	.66	.80
6-8	BA16ES8	.31	.26	.69	.86
8-10	BA16ES10	.41	.31	.75	.95
	BA16ES10T1	.36	.31	.75	.93

Wire Range: 16-14 Max. Insul. Dia.: .180" Sleeve Color: Blue					
1, 2	BA14ES2	.17	.23	.66	.75
4-6	BA14ES6	.28	.23	.66	.80
6-8	BA14ES8	.31	.26	.69	.86
8-10	BA14ES10	.41	.31	.75	.95
	BA14ES10T1	.36	.31	.75	.93

Wire Range: 12-10 Max. Insul. Dia.: .260" Sleeve Color: Yellow					
4-6	BA10ES6	.28	.26	.81	.95
6-8	BA10ES8	.31	.26	.81	.98
8-10	BA10ES10	.41	.31	.87	1.07
	BA10ES10T1	.36	.31	.87	1.05

Fork Tongue, FORKLK, Fig. E, Series BA-EL

Wire Range: 22-16 Max. Insul. Dia.: .145" Sleeve Color: Red

Stud Size	Catalog Number*	Dimensions			
		C	L	Y	Z
10	BA16EL10	.369	.102	.75	.31
8	BA16EL8	.322	.91	.69	.26
6	BA16EL6	.290	.87	.66	.23
5	BA16EL5	.290	.87	.66	.23

Wire Range: 18-14 Max. Insul. Dia.: .180" Sleeve Color: Blue

Stud Size	Catalog Number*	Dimensions			
		C	L	Y	Z
10	BA14EL10	.369	.102	.75	.31
8	BA14EL8	.322	.91	.69	.26
6	BA14EL6	.290	.87	.66	.23

Wire Range: 12-10 Max. Insul. Dia.: .260" Sleeve Color: Yellow

Stud Size	Catalog Number*	Dimensions			
		C	L	Y	Z
10	BA10EL10	.369	1.16	.87	.31
8	BA10EL8	.322	1.07	.81	.26
6	BA10EL6	.290	1.05	.81	.26

Fork Tongue, Fig. C, Series BA-EF

Stud Size	Catalog No.*	Dimensions in Inches			
		C	Z Min.	Y Max.	L Max.
Wire Range: 22-16 Max. Insul. Dia.: .145" Sleeve Color: Red					
1, 2	BA16EF2	.17	.23	.66	.75
4-6	BA16EF6	.28	.23	.66	.80
6-8	BA16EF8	.31	.26	.69	.86
8-10	BA16EF10	.41	.31	.75	.95
	BA16EF10T1	.36	.31	.75	.93

Wire Range: 16-14 Max. Insul. Dia.: .180" Sleeve Color: Blue					
1, 2	BA14EF2	.17	.23	.66	.75
4-6	BA14EF6	.28	.23	.66	.80
6-8	BA14EF8	.31	.26	.69	.86
8-10	BA14EF10	.41	.31	.75	.95
	BA14EF10T1	.36	.31	.75	.93

Wire Range: 12-10 Max. Insul. Dia.: .260" Sleeve Color: Yellow					
4-6	BA10EF6	.28	.26	.81	.95
6-8	BA10EF8	.31	.26	.81	.98
8-10	BA10EF10	.41	.31	.87	1.07
	BA10EF10T1	.36	.31	.87	1.05

Fork Tongue (Flanged), Fig. D, Series BA-EZ

Stud Size	Catalog No.*	Dimensions in Inches			
		C	Z Min.	Y Max.	L Max.
Wire Range: 22-16 Max. Insul. Dia.: .145" Sleeve Color: Red					
1, 2	BA16EZ2	.17	.23	.66	.78
4-6	BA16EZ6	.28	.23	.66	.83
6-8	BA16EZ8	.31	.26	.69	.83
8-10	BA16EZ10	.41	.31	.75	.96
	BA16EZ10T1	.36	.31	.75	.96

Wire Range: 16-14 Max. Insul. Dia.: .180" Sleeve Color: Blue					
1, 2	BA14EZ2	.17	.23	.66	.78
4-6	BA14EZ6	.28	.23	.66	.83
6-8	BA14EZ8	.31	.26	.69	.88
8-10	BA14EZ10	.41	.31	.75	.96
	BA14EZ10T1	.36	.31	.75	.96

Wire Range: 12-10 Max. Insul. Dia.: .260" Sleeve Color: Yellow					
4-6	BA10EZ6	.28	.26	.81	.99
6-8	BA10EZ8	.31	.26	.81	1.01
8-10	BA10EZ10	.41	.31	.87	1.09
	BA10EZ10T1	.36	.31	.87	1.09

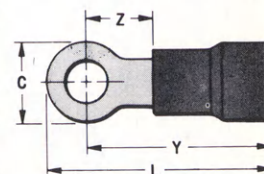


Fig. A

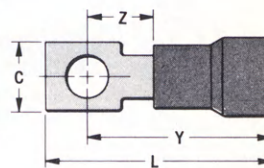


Fig. B

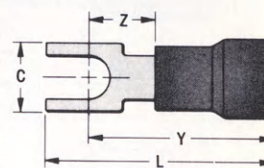


Fig. C

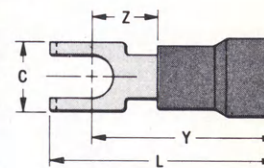


Fig. D

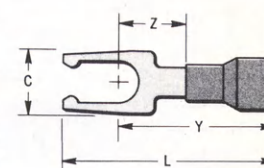


Fig. E

* Consult factory for ordering information for parts supplied for automatic crimping operations



Underwriters Laboratories, Inc. lists and recognizes electrical connectors for conductor sizes 22 to 2000 MCM.

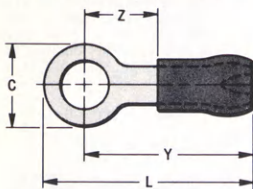
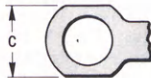


Fig. F Style 1



Style 2

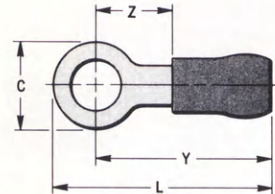


Fig. G

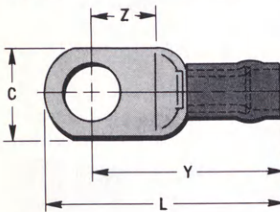


Fig. H

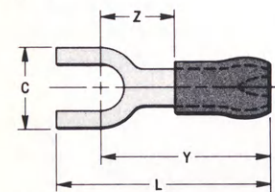


Fig. I

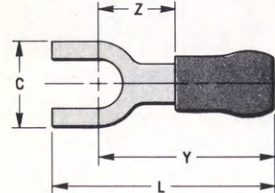


Fig. J

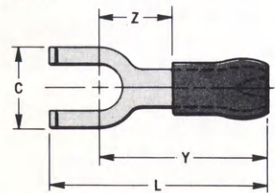


Fig. K

These nylon-insulated terminals are made of one piece pure electrolytic copper for maximum conductivity and ductility. Color-coded insulating sleeves are locked into position. Inspection hole permits visual check of wire insertion. Brazed seam and inner serrations permit wide latitude in crimping. Cylindrical insulation grip provides

smooth transition for easy wire insertion. Tin plated to resist corrosion.

Where indicated in tables, some models meet MIL-T-7928. All series can be supplied packaged for high volume automatic crimping. Consult factory for details.

Ring Tongue, Fig. F, Series YAE

Stud Size	Catalog Number*	Dimensions in Inches					MS25036 Dash No.
		Style	C	Z Min.	Y Max.	L Max.	
Wire Range: 28-20 Max. Insul. Dia.: .098" Sleeve Color: Amber							
1, 2	YAE22G18	1	.15	.22	.62	.70	—143
	YAE22G12	1	.25	.22	.62	.75	—
3, 4	YAE22G16	2	.18	.22	.62	.75	—144
4-6	YAE22G13	1	.25	.22	.62	.75	—145
6-8	YAE22G14	1	.32	.27	.67	.83	—146
8-10	YAE22G15	1	.32	.27	.67	.83	—147

Wire Range: 22-16 Max. Insul. Dia.: .125" Sleeve Color: Red							
1, 2	YAE18N20	1	.14	.19	.68	.75	—
	YAE18N18	1	.25	.19	.68	.80	—
	YAE18N27	1	.19	.19	.66	.77	—
3-4	YAE18N7	2	.18	.19	.69	.79	—
	YAE18N17	1	.25	.19	.68	.80	—148
4	YAE18N26	1	.23	.19	.68	.78	—
	YAE18N25	1	.23	.19	.68	.78	—
4-6	YAE18N21	1	.25	.28	.77	.89	—102
	YAE18G43	1	.25	.19	.68	.90	—101
6-8	YAE18N24	1	.28	.28	.77	.92	—149
	YAE18N1	1	.31	.28	.77	.92	—149
8-10	YAE18N	1	.31	.28	.77	.92	—103
1/4	YAE18N2	1	.45	.40	.88	1.11	—150
5/16	YAE18N3	1	.45	.40	.88	1.11	—104
3/8	YAE18N15	1	.53	.45	.93	1.19	—105

Wire Range: 16-14 Max. Insul. Dia.: .156" Sleeve Color: Blue							
4-6	YAE14N43	1	.25	.20	.69	.82	—106
6-8	YAE14N1	1	.31	.28	.75	.92	—153
8-10	YAE14N	1	.31	.28	.75	.92	—108
1/4	YAE14N2	1	.45	.40	.88	1.11	—154
5/16	YAE14N3	1	.45	.40	.88	1.11	—109
3/8	YAE14N4	1	.53	.44	.93	1.19	—110

Wire Range: 14-12 Max. Insul. Dia.: .180" Sleeve Color: Green							
4-6	YAE12N14	1	.25	.28	.90	1.02	—
	YAE12G10	1	.31	.28	.91	1.06	—
6-8	YAE12N9	2	.31	.28	.91	1.06	—
8-10	YAE12N	1	.31	.28	.91	1.06	—
1/4	YAE12N2	1	.45	.40	.91	1.24	—
5/16	YAE12N3	1	.53	.41	1.03	1.29	—
3/8	YAE12N4	1	.53	.45	1.07	1.33	—

Wire Range: 12-10 Max. Insul. Dia.: .209" Sleeve Color: Yellow							
4-6	YAE10N44	1	.28	.28	.96	1.15	—
	YAE10N5	1	.38	.28	.96	1.15	—
6-8	YAE10N11	1	.38	.30	.90	1.17	—156
8-10	YAE10N	1	.38	.28	.96	1.15	—112
	YAE10G45	1	.38	.28	.96	1.15	—
1/4	YAE10N3	1	.54	.44	1.12	1.39	—157
5/16	YAE10N2	1	.54	.44	1.12	1.39	—113
3/8	YAE10N4	1	.54	.44	1.12	1.39	—114

† Class 2
* Consult factory for ordering information for parts supplied for automatic crimping operations

Ring Tongue, Fig. G, Series YAES

Stud Size	Catalog Number*	Dimensions in Inches					MS25036 Dash No.‡
		C	Z Min.	Y Max.	L Max.		
Wire Range: 22-18		Max. Insul. Dia.: .120"			Sleeve Color: Red		
4	YAES18N48	.23	.20	.64	.76	—148	
6	YAES18N1	.23	.20	.64	.76	—101	
	YAES18N2	.25	.29	.74	.87	—102	
8	YAES18N49	.31	.29	.76	.91	—149	
10	YAES18N3	.31	.29	.76	.91	—103	
1/4	YAES18N50	.46	.41	.87	1.09	—150	
5/16	YAES18N4	.46	.41	.87	1.09	—104	
3/8	YAES18N5	.53	.45	.91	1.17	—105	

Wire Range: 16-14 Max. Insul. Dia.: .153" Sleeve Color: Blue							
4	YAES14N52	.25	.24	.67	.79	—	—152
6	YAES14N6	.25	.24	.67	.79	—	—106
	YAES14N7	.31	.31	.74	.89	—	—107
8	YAES14N53	.31	.31	.74	.89	—	—153
10	YAES14N8	.31	.31	.74	.89	—	—108
1/4	YAES14N54	.45	.43	.86	1.08	—	—154
5/16	YAES14N9	.45	.43	.86	1.08	—	—109
3/8	YAES14N10	.53	.47	.90	1.16	—	—110

Wire Range: 12-10 Max. Insul. Dia.: .210" Sleeve Color: Yellow							
6	YAES10N11	.37	.26	.94	1.12	—	—111
8	YAES10N56	.37	.26	.94	1.12	—	—156
10	YAES10N12	.37	.26	.94	1.12	—	—112
1/4	YAES10N57	.53	.37	1.06	1.32	—	—157
5/16	YAES10N13	.53	.37	1.06	1.32	—	—113
3/8	YAES10N14	.58	.40	1.05	1.34	—	—114

‡ Class 1 and Class 2

Ring Tongue, Heavy Duty, Fig. H, Series YAEV

Stud Size	Catalog Number*	Dimensions in Inches					MS25036 Dash No.§
		C	Z Min.	Y Max.	L Max.		
Wire Range: 12-10 Max. Insul. Dia.: .209" Sleeve Color: Yellow							
4-6	YAEV10-T7	.30	.24	.92	1.06	—	
6-8	YAEV10-T11	.37	.26	.94	1.11	—	
8-10	YAEV10	.37	.26	.94	1.11	—	
	YAEV10-L36	.30	.18	.92	1.06	—	
¼	YAEV10-T3	.47	.32	1.05	1.27	—	
⅝	YAEV10-T2	.53	.31	1.02	1.27	—	
⅜	YAEV10-T4	.56	.35	1.05	1.32	—	

Wire Size: 8 Max. Insul. Dia.: .258" Sleeve Color: Red							
6-8	YAEV8C-L14	.41	.25	1.20	1.39	—	—
8-10	YAEV8C-L	.41	.25	1.20	1.39	—	—115
1/4	YAEV8C-L1	.44	.28	1.24	1.47	—	—116
5/16	YAEV8C-L2	.56	.33	1.28	1.55	—	—117
3/8	YAEV8C-L3	.56	.33	1.28	1.55	—	—118
1/2	YAEV8C-L4	.81	.47	1.39	1.75	—	—

Wire Size: 6 Max. Insul. Dia.: .313" Sleeve Color: Blue							
8-10	YAEV6C-L1	.50	.28	1.33	1.56	—	—119
1/4	YAEV6C-L	.50	.28	1.33	1.56	—	—120
5/16	YAEV6C-L2	.59	.33	1.39	1.69	—	—121
3/8	YAEV6C-L2	.59	.34	1.39	1.69	—	—122
1/2	YAEV6C-L10	.81	.47	1.53	1.91	—	—

‡ Class 1

TERMINALS

Nylon Insulated INSULUG



Ring Tongue, Heavy Duty, Fig. H, Series YAEV (Cont'd)

Stud Size	Catalog Number*	Dimensions in Inches				MS25036 Dash No.
		C	Z Min.	Y Max.	L Max.	

Wire Size: 4 Max. Insul. Dia.: .374" Sleeve Color: Yellow

8-10	YAEV4C-L2	.55	.30	1.40	1.63	—
1/4	YAEV4C-L	.55	.28	1.37	1.61	—123
5/16	YAEV4C-L4	.62	.34	1.43	1.72	—124
3/8	YAEV4C-L2	.62	.34	1.43	1.72	—125
1/2	YAEV4C-L5	.81	.47	1.56	1.92	—

Wire Size: 2 Max. Insul. Dia.: .459" Sleeve Color: Red

8-10	YAEV2C-L3	.69	.35	1.72	2.01	—
1/4	YAEV2C-L1	.69	.28	1.61	1.91	—126
5/16	YAEV2C-L2	.69	.35	1.68	1.98	—
3/8	YAEV2C-L	.69	.35	1.69	1.98	—127
1/2	YAEV2C-L4	.78	.47	1.80	2.16	—128

Wire Size: 1 Max. Insul. Dia.: .516" Sleeve Color: White

1/4	YAEV1C-L1	.77	.28	1.63	1.96	—129
5/16	YAEV1C-L2	.77	.33	1.71	2.04	—
3/8	YAEV1C-L	.77	.34	1.72	2.05	—130
1/2	YAEV1C-L3	.86	.47	1.86	2.28	—131

Wire Size: 1/0 Max. Insul. Dia.: .564" Sleeve Color: Blue

1/4	YAEV25-L1	.84	.44	1.97	2.31	—132
5/16	YAEV25-L2	.84	.44	1.97	2.33	—
3/8	YAEV25-L	.84	.44	1.97	2.35	—133
1/2	YAEV25-L3	.88	.47	2.02	2.44	—134
5/8	YAEV25-L4	.88	.63	2.17	2.66	—

Wire Size: 2/0 Max. Insul. Dia.: .628" Sleeve Color: Yellow

1/4	YAEV26-L1	.94	.28	2.08	2.46	—
5/16	YAEV26-L2	.94	.33	2.13	2.51	—135
3/8	YAEV26-L	.94	.34	2.14	2.52	—136
1/2	YAEV26-L3	.94	.47	2.27	2.69	—137
5/8	YAEV26-L12	.94	.63	2.43	2.94	—

§ Class 1

Fork Tongue, Fig. I, Series YAE-F

	Stud Size	Catalog Number*	Dimensions in Inches			
			C	Z Min.	Y Max.	L Max.
Wire Range: 26-20 Max. Insul. Dia.: .098" Sleeve Color: Amber	1, 2	YAE22N65F	.18	.24	.65	.73
	4-6	YAE22N66F	.28	.28	.70	.80
	6-8	YAE22N67F	.31	.30	.72	.90
	8-10	YAE22N68F	.36	.35	.78	.99
Wire Range: 22-16 Max. Insul. Dia.: .125" Sleeve Color: Red	2	YAE18N55F	.19	.22	.71	.78
	4	YAE18N60F	.21	.24	.73	.92
	4-6	YAE18G43F	.25	.19	.68	.78
		YAE18N52F	.28	.26	.75	.92
		YAE18N56F	.28	.23	.76	.83
	6-7	YAE18N61F	.28	.26	.75	.92
	6-8	YAE18N57F	.31	.29	.78	.96
Wire Range: 16-14 Max. Insul. Dia.: .156" Sleeve Color: Blue	8-10	YAE18N58F	.36	.34	.83	1.02
	4-6	YAE14N76F	.28	.26	.76	.87
	6-8	YAE14N71F	.28	.25	.74	.92
		YAE14N77F	.31	.29	.78	.96
	8-10	YAE14N78F	.36	.34	.83	1.01

Fork Tongue, Fig. J, Series YAES-F

Wire Range: 22-18 Max. Insul. Dia.: .120" Sleeve Color: Red	6	YAES18N1F	.28	.24	.65	.79
	8	YAES18N49F	.31	.26	.67	.84
	10	YAES18N3F	.37	.27	.68	.84
	1/4	YAES18N50F	.47	.38	.79	1.03
Wire Range: 16-14 Max. Insul. Dia.: .153" Sleeve Color: Blue	6	YAES14N6F	.28	.24	.65	.79
	8	YAES14N53F	.31	.26	.67	.84
	10	YAES14N8F	.37	.27	.68	.84
	1/4	YAES14N54F	.47	.38	.79	1.03
Wire Range: 12-10 Max. Insul. Dia.: .210" Sleeve Color: Yellow	6	YAES10N11F	.28	.24	.82	.96
	8	YAES10N56F	.31	.26	.84	1.01
	10	YAES10N12F	.41	.31	.89	1.09
	1/4	YAES10N57F	.50	.38	.96	1.21

Fork Tongue (Flanged), Fig. K, Series YAE-Z

Wire Range: 26-20 Max. Insul. Dia.: .098" Sleeve Color: Amber	1, 2	YAE22Z1	.18	.24	.65	.75
	4-6	YAE22Z2	.28	.28	.70	.83
	6-8	YAE22Z3	.31	.30	.72	.92
	8-10	YAE22Z4	.36	.35	.78	1.01
Wire Range: 22-16 Max. Insul. Dia.: .125" Sleeve Color: Red	1, 2	YAE18Z1	.18	.22	.73	.83
	4-6	YAE18Z2	.28	.26	.76	.90
	6-8	YAE18Z3	.31	.29	.78	1.00
	8-10	YAE18Z4	.36	.34	.83	1.08
Wire Range: 18-14 Max. Insul. Dia.: .156" Sleeve Color: Blue	1, 2	YAE14Z1	.18	.22	.73	.83
	4-6	YAE14Z2	.28	.26	.76	.90
	6-8	YAE14Z3	.31	.29	.78	1.00
	8-10	YAE14Z4	.36	.34	.83	1.08
Wire Range: 14-12 Max. Insul. Dia.: .180" Sleeve Color: Green	4-6	YAE12Z2	.28	.27	.90	1.04
	6-8	YAE12Z3	.31	.32	.96	1.16
	8-10	YAE12Z4	.36	.35	1.00	1.23

* Consult factory for ordering information for parts supplied for automatic crimping operations



Closed Barrel NEMA Tab

FINGRIP

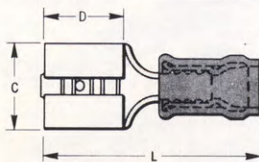


Fig. L

Mates quickly, easily, and securely with standard NEMA tabs. Constructed from brass for strong retention, and excellent electrical contact. Vinyl sleeve has inner copper sleeve to resist vibration and flexing. EASY / ENTRY assures "no hang-up" insertion of wire. Mylar tape mounted available for automatic termination equipment. Consult factory for details.

Two-piece terminals are electrically equivalent to the three-piece version.

Recognized under the Component Program of Underwriters Laboratories Inc.

NEMA Tab, Fig. L, Series PQ

	Tab Size	Catalog Number*		Material and Finish	Stock Thickness	Dimensions		
		2-Piece	3-Piece			D	L Max.	C
Wire Range: 22-18 Max. Insul. Dia.: .135" Sleeve Color: Red	.187X.020 NEMA TAB	—	PQ18R187B	Brass	.016	.25	.76	.23
	—	—	PQ18R188B	Tin plated brass	.016	.25	.76	.23
	.250X.032 NEMA TAB	PQ18R255B	PQ18R257B	Brass	.018	.30	.85	.30
	—	PQ18R256B	PQ18R258B	Tin plated brass	.018	.30	.85	.30
Wire Range: 16-14 Max. Insul. Dia.: .160" Sleeve Color: Blue	.187X.020 NEMA TAB	—	PQ14R187B	Brass	.016	.25	.76	.23
	—	—	PQ14R188B	Tin plated brass	.016	.25	.76	.23
	.250X.032 NEMA TAB	PQ14R255B	PQ14R257B	Brass	.018	.30	.85	.30
	—	PQ14R256B	PQ14R258B	Tin plated brass	.018	.30	.85	.30
Wire Range: 12-10 Max. Insul. Dia.: .250" Sleeve Color: Yellow	.250X.032 NEMA TAB	—	PQ10R257B	Brass	.018	.30	1	.30
	—	—	PQ10R258B	Tin plated brass	.018	.30	1	.30

* Consult factory for ordering information for parts supplied for automatic insertion

Two fabrication methods are used: brazed seam and seamless. Brazed seam models (identified by the series prefix YAD) are made of pure electrolytic copper for maximum conductivity and ductility. Seamless models (identified by the series prefix YAV) are formed from pure copper tubing for severe applications. An inspection hole in the barrel of these latter models permits a visual

check of wire insertion. Where indicated in tables, some catalog numbers meet the requirements of MIL-T-7928. Ring Tongue terminals have two styles: with or without insulation grips. All series are tin plated to resist corrosion. Where indicated by an asterisk (*) in tables, some series can be supplied packaged for high volume automatic crimping. Consult factory for details.



Underwriters Laboratories, Inc. lists and recognizes electrical connectors for conductor sizes 22 to 2000 MCM.

Ring Tongue, Fig. M, Series YAD

Stud Size	Catalog Number*	Dimensions in Inches			
		C	Z Min.	Y Max.	L Max.

Wire Range: 22-18

4	YAD18-4	.25	.24	.53	.65
4-6	YAD18-6	.25	.24	.53	.65
4-6	YAD18-G62	.25	.33	.61	.75
6-8	YAD18-8	.31	.33	.61	.77
8-10	YAD18-10	.31	.33	.61	.77
1/4	YAD18-14	.45	.44	.73	.96
5/16	YAD18-516	.45	.44	.73	.96
3/8	YAD18-38	.53	.49	.78	1.05

Wire Range: 20-14

4	YAD14-4	.25	.26	.56	.67
4-6	YAD14-6	.25	.26	.56	.67
6-8	YAD14-8	.31	.33	.61	.77
8-10	YAD14-10	.31	.33	.61	.77
1/4	YAD14-14	.45	.44	.73	.96
5/16	YAD14-516	.45	.44	.73	.96
5-14	YAD14-L65	.32	.41	.70	.95
3/8	YAD14-38	.53	.49	.78	1.05

Wire Range: 18-10

4-6	YAD10-6	.38	.29	.64	.83
6-8	YAD10-8	.38	.29	.64	.83
8-10	YAD10-10	.38	.29	.64	.83
1/4	YAD10-14	.46	.39	.74	.97
5/16	YAD10-516	.53	.41	.76	1.02
3/8	YAD10-38	.58	.44	.79	1.08

Ring Tongue, Heavy Duty, Fig. O, Series YAV

Stud Size	Catalog Number*	Dimensions in Inches			
		C Max.	Z Min.	Y Max.	L Max.

Wire Range: 22-18

3, 4	YAV18-T4	.19	.16	.54	.62
4-6	YAV18-L33	.25	.18	.55	.67
4-6	YAV18-L53	.31	.18	.57	.78
	YAV18-T5	.31	.24	.61	.76
6-8	YAV18-T1	.31	.24	.61	.76
8-10	YAV18	.31	.24	.61	.76

Wire Range: 20-14

4-6	YAV14-L33	.25	.18	.59	.71
	YAV-14-T5	.31	.24	.64	.79
6-8	YAV14-T1	.31	.24	.64	.79
8-10	YAV14-L36	.29	.18	.59	.74
	YAV14	.31	.24	.64	.79
1/4	YAV14-T2	.42	.32	.75	.99
5/16	YAV14-T3	.44	.32	.75	.99

Wire Range: 14-12

8-10	YAV12-G2	.30	.24	.67	.82
1/4	YAV12-G3	.36	.34	.67	1.00

Ring Tongue, Insulation Grip, Fig. N, Series YAD-H

Stud Size	Catalog Number*	Dimensions in Inches				MS20659 Dash No.†
		C	Z Min.	Y Max.	L Max.	

Wire Range: 22-16 Max. Insul. Dia.: .120"

3-4	YAD18H17	.25	.23	.77	.90	—38
4-6	YAD18G43	.25	.21	.63	.74	—
	YAD18H6	.25	.23	.77	.90	—1
8-10	YAD18H	.31	.31	.81	.96	—2
1/4	YAD18H2	.47	.43	.94	1.16	—
3/8	YAD18H15	.64	.48	.99	1.29	—25

Wire Range: 20-14 Max. Insul. Dia.: .150"

	YAD14G43	.25	.21	.63	.74	—
4-6	YAD14H52	.25	.30	.80	.93	—26
	YAD14H5	.31	.31	.81	.96	—3
8-10	YAD14H	.31	.31	.81	.96	—4
1/4	YAD14H2	.47	.43	.94	1.16	—
5/16	YAD14H3	.47	.43	.94	1.16	—
3/8	YAD14H4	.64	.48	.99	1.29	—27

† Class 2

* Consult factory for ordering information for parts supplied for automatic crimping operations

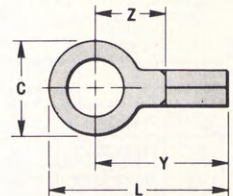


Fig. M

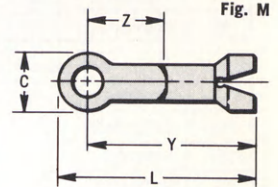


Fig. N

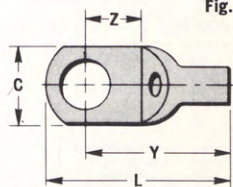


Fig. O

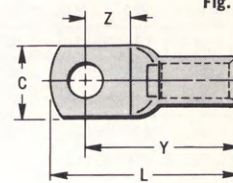


Fig. P

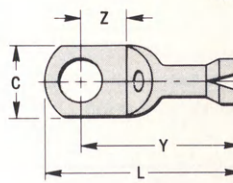


Fig. Q

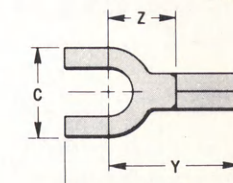


Fig. R

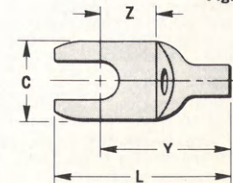


Fig. S

Stud Size	Catalog Number*	Dimensions in Inches				MS20659 Dash No.
		C	Z Min.	Y Max.	L Max.	

Wire Range: 12-10

4-6	YAV10-T7	.30	.24	.78	.93	—165†
6-8	YAV10-T11	.38	.26	.79	.97	—
8-10	YAV10-L36	.29	.18	.65	.80	—
	YAV10	.38	.26	.79	.97	—105†
1/4	YAV10-T3	.47	.32	.90	1.13	—106†
5/16	YAV10-T2	.53	.31	.87	1.13	—106†
3/8	YAV10-T4	.56	.35	.90	1.18	—128†

Wire Range: 10-9

8-10	YAV9C-L36	.31	.15	.83	.97	—
1/4	YAV9C-T9	.44	.31	.95	1.19	—
5/16	YAV9C-T4	.52	.36	1.02	1.27	—

Wire Range: 8

6-8	YAV8C-L14	.41	.25	.96	1.15	—140†
8-10	YAV8C-L	.41	.25	.96	1.15	—107†
1/4	YAV8C-L1	.44	.28	.99	1.23	—141†
5/16	YAV8C-L2	.56	.33	1.04	1.31	—108†
3/8	YAV8C-L3	.56	.33	1.04	1.31	—129†
1/2	YAV8C-L4	.81	.47	1.14	1.51	—142†

† Class 1

‡ Class 1 and Class 2

Ring Tongue, Heavy Duty, Fig. P, Series YAV

Stud Size	Catalog Number	Dimensions in Inches				MS20659 Dash No.†
		C	Z Min.	Y Max.	L Max.	

Wire Size: 6

8-10	YAV6C-L1	.50	.28	1.08	1.33	—130
1/4	YAV6C-L	.50	.28	1.08	1.33	—109
3/8	YAV6C-L4	.59	.33	1.14	1.45	—131
3/8	YAV6C-L2	.59	.33	1.14	1.45	—110
1/2	YAV6C-L10	.81	.47	1.28	1.67	—143

Wire Size: 4

8-10	YAV4C-L3	.55	.30	1.16	1.40	—144
1/4	YAV4C-L	.55	.28	1.14	1.39	—111
3/8	YAV4C-L4	.63	.34	1.20	1.50	—132
3/8	YAV4C-L2	.63	.34	1.20	1.50	—112
1/2	YAV4C-L5	.81	.47	1.33	1.70	—145

Wire Size: 2

8-10	YAV2C-L3	.69	.35	1.40	1.71	—146
1/4	YAV2C-L1	.69	.28	1.33	1.64	—113
3/8	YAV2C-L2	.69	.35	1.40	1.71	—147
3/8	YAV2C-L	.69	.35	1.31	1.62	—114
1/2	YAV2C-L4	.78	.47	1.43	1.80	—133

Wire Size: 1

8-10	YAV1C-L6	.77	.25	1.35	1.62	—
1/4	YAV1C-L1	.77	.28	1.38	1.71	—115
3/8	YAV1C-L2	.77	.33	1.42	1.76	—149
3/8	YAV1C-L	.77	.34	1.44	1.77	—116
1/2	YAV1C-L3	.86	.47	1.56	2.00	—134

† Class 1

Fork Tongue, Fig. R, Series YAD-F

Wire Range: 22-18

Stud Size	Catalog Number*	Dimensions in Inches			
		C	Z Min.	Y Max.	L Max.
4-6	YAD18-6F	.28	.25	.55	.68
6-8	YAD18-8F	.31	.27	.57	.74
8-10	YAD18-10F	.38	.29	.58	.74
1/4	YAD18-14F	.47	.39	.69	.92

Fork Tongue, Heavy Duty, Fig. S, Series YAV-F

Wire Range: 22-18

Stud Size	Catalog Number*	Dimensions in Inches			
		C	Z Min.	Y Max.	L Max.
4-6	YAV18T19F	.31	.25	.55	.80
8-10	YAV18T21F	.37	.25	.55	.80

* Consult factory for ordering information for parts supplied for automatic crimping operations

Stud Size	Catalog Number	Dimensions in Inches				MS20659 Dash No.†
		C	Z Min.	Y Max.	L Max.	

Wire Size: 1/0

1/4	YAV25-L1	.84	.44	1.62	1.98	—117
3/8	YAV25-L2	.84	.44	1.62	2.00	—151
3/8	YAV25-L	.84	.44	1.62	2.01	—118
1/2	YAV25-L3	.88	.47	1.67	2.10	—135
5/8	YAV25-L4	.88	.63	1.93	2.32	—

Wire Size: 2/0

1/4	YAV26-L1	.94	.28	1.67	2.05	—153
3/8	YAV26-L2	.94	.33	1.72	2.10	—119
3/8	YAV26-L	.94	.34	1.74	2.12	—120
1/2	YAV26-L3	.94	.47	1.86	2.29	—136
5/8	YAV26-L12	.94	.63	2.02	2.54	—
3/4	YAV26-L22	1.13	.80	2.19	2.68	—

Wire Size: 3/0

3/8	YAV27-L20	1.03	.33	1.77	2.20	—155
3/8	YAV27-L	1.03	.34	1.78	2.25	—121
1/2	YAV27-L1	1.03	.47	1.91	2.39	—122
5/8	YAV27-L15	1.03	.63	2.06	2.62	—

Wire Size: 4/0

3/8	YAV28-L56	1.14	.33	1.91	2.34	—157
3/8	YAV28-L	1.14	.34	1.83	2.31	—123
1/2	YAV28-L12	1.14	.47	1.96	2.44	—124
5/8	YAV28-L13	1.14	.63	2.12	2.67	—159
3/4	YAV28-L14	1.25	.69	2.18	2.80	—
7/8	YAV28-L54	1.25	.78	2.27	2.89	—

Wire Range: 20-14

Stud Size	Catalog Number*	Dimensions in Inches			
		C	Z Min.	Y Max.	L Max.
4-6	YAD14-6F	.28	.25	.55	.68
6-8	YAD14-8F	.31	.27	.57	.74
8-10	YAD14-10F	.38	.29	.58	.74
1/4	YAD14-14F	.47	.39	.69	.92

Wire Range: 20-14

Stud Size	Catalog Number*	Dimensions in Inches			
		C	Z Min.	Y Max.	L Max.
4-6	YAV14T32F	.31	.25	.57	.80
8-10	YAV14T34F	.37	.26	.60	.82

Ring Tongue, Heavy Duty, Insulation Grip, Fig. Q, Series YAV-H

Stud Size	Catalog Number	Dimensions in Inches			
		C	Z Min.	Y Max.	L Max.

Wire Range: 22-18 Max. Insul. Dia.: .120"

3, 4	YAV18H4	.19	.16	.67	.76
	YAV18HL33	.25	.18	.70	.82
4-6	YAV18H6	.25	.19	.79	.91
	YAV18H5	.31	.24	.76	.91
6-8	YAV18H1	.31	.24	.76	.91
8-10	YAV18H	.31	.24	.76	.91

Wire Range: 20-14 Max. Insul. Dia.: .150"

4-6	YAV14HL33	.25	.18	.74	.86
	YAV14H5	.31	.24	.80	.95
6-8	YAV14H1	.31	.24	.80	.95
8-10	YAV14H	.31	.24	.80	.95
1/4	YAV14H2	.42	.32	.90	1.14

Wire Range: 12-10 Max. Insul. Dia.: .192"

6-8	YAV10H25	.31	.24	.90	1.04
8-10	YAV10H	.38	.24	.91	1.09
1/4	YAV10H3	.47	.32	.99	1.22
3/8	YAV10H2	.53	.35	1.02	1.28
3/8	YAV10H4	.56	.35	1.02	1.29

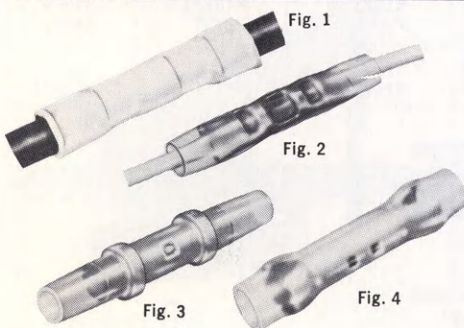
Wire Range: 16-10

Stud Size	Catalog Number*	Dimensions in Inches			
		C	Z Min.	Y Max.	L Max.
4-6	YAD10-6F	.28	.25	.61	.74
6-8	YAD10-8F	.31	.27	.63	.80
8-10	YAD10-10F	.41	.32	.68	.87
1/4	YAD10-14F	.50	.39	.75	1.00

Wire Range: 12-10

Stud Size	Catalog Number*	Dimensions in Inches			
		C	Z Min.	Y Max.	L Max.
8-10	YAV10T21F	.38	.26	.69	.91
1/4	YAV10T23F	.47	.34	.75	1.00

Insulated Butt Splices



Four styles. Made from pure copper and tin-plated to resist corrosion. Vinyl or nylon insulated. Color coded sleeve on nylon types is transparent. Meet MIL-T-7928 where noted. U.L. listed except where noted. VINYLKING is CSA listed.

Illustration	Wire Range	Catalog Number	Sleeve Color	Dimensions in Inches		NAS1388 Dash No.	MS25181† Dash No.	Comments
				Length Overall	Max. Ins. Dia.			

Vinyl Insulated

1	22-16	BS16	Red	.99	.145	—	—	Low Cost
	16-14	BS14	Blue	.99	.180	—	—	
	12-10	BS10	Yellow	1.21	.260	—	—	

Nylon Insulated

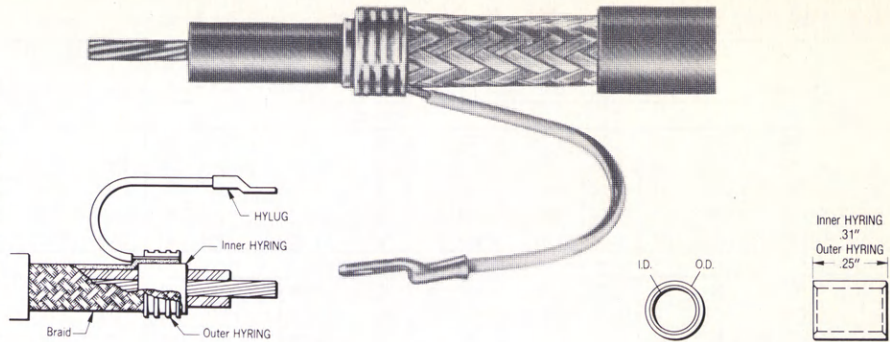
2	22-16	YSE18HN	Red	1.25	.115	—1	—	MIL-T-7928 "Window Splice"
	16-14	YSE14HN	Blue	1.25	.150	—2	—	
	12-10	YSE10HN	Yellow	1.64	.220	—3	—	
3	22-18	YSES18-1	Red	1.53	.120	—	—1	MS25181, Class I
	16-14	YSES14-2	Blue	1.53	.150	—	—2	
	12-10	YSES10-3	Yellow	1.90	.203	—	—3	
4	22-18	YSE18H	Red	1.20	.115	—	—	Insulation Grips
	16-14	YSE14H	Blue	1.36	.150	—	—	
	12-10	YSE10†	Yellow	1.15	.209	—	—	

† Class 1

† Recognized under the Component Program of Underwriters Laboratories, Inc.

Uninsulated HYRING

For effective grounding of the more commonly used RG/U type coaxial cable. The small, inner HYRING is slipped under the braided shield and ground lead, and the larger, outer HYRING is slipped over the entire assembly and crimped. Recommendations are based on the use of #20 AWG stranded ground taps—for grounds larger than #20, refer to Burndy.

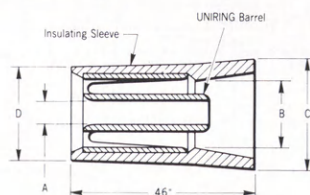
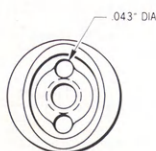


Selection chart for HYRING

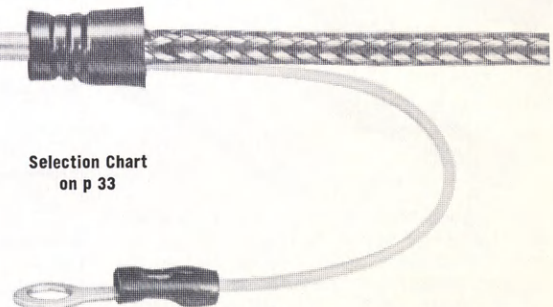
Coaxial Cable	Inner HYRING Catalog Number	Outer HYRING Catalog Number	Installation Tools & Die Set No.				
			Ratchet HYTOOL		HYTOOL	HYPRESS	
			MR8PV Type Includes Die	M8ND		Y10NCPS-2	Y8ND
RG5B/U	YIC194	YOC200	MR8PV-3	—	R20VT	R20VT	—
RG6A/U	YIC194	YOC200	MR8PV-3	—	R20VT	R20VT	—
RG8/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG11/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG11A/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG12A/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG22/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG26A/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG54A/U	YIC194	YOC180	MR8PV-2	—	R18VT-3	R18VT-3	—
RG55/U	YIC124	YOC150	MR8PV-1S, MRPV-11S	N14VST	R14VST-5	R14VST-5	N14VST
RG55B/U	YIC124	YOC150	MR8PV-1S	N14VST	R14VST-5	R14VST-5	N14VST
RG58/U	YIC124	YOC128	MR8PV-S, MR8PV-1S	N12VST	R14VST-5	R14VST-5	N12VST
RG58A/U	YIC124	YOC128	MR8PV-S, MR8PV-1S	N12VST	R14VST-5	R14VST-5	N12VST
RG58C/U	YIC124	YOC130	MR8PV-S, MR8PV-1S, MR8PV-10S	N12VST	R14VST-5	R14VST-5	N12VST
RG59/U	YIC156	YOC160	MR8PV-2	N16VT	R18VT-3	R18VT-3	N16VT
RG59B/U	YIC156	YOC160	MR8PV-2	N16VT	R18VT-3	R18VT-3	N16VT
RG62/U	YIC156	YOC160	MR8PV-2	N16VT	R18VT-3	R18VT-3	N16VT
RG62A/U	YIC156	YOC160	MR8PV-2	N16VT	R18VT-3	R18VT-3	N16VT
RG63/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG63B/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG65A/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG71/U	YIC156	YOC180	MR8PV-2	—	R18VT-3	R18VT-3	—
RG71B/U	YIC156	YOC180	MR8PV-2	—	R18VT-3	R18VT-3	—
RG79B/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG89/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG115/U	YIC261	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG122/U	YIC109	YOC130	MR8PV-S, MR8PV-1S, MR8PV-10S	N12VST	R14VST-5	R14VST-5	N12VST
RG126/U	YIC194	YOC190	MR8PV-2	—	R18VT-3	R18VT-3	—
RG140/U	YIC156	YOC160	MR8PV-2	N16VT	R18VT-3	R18VT-3	N16VT
RG141A/U	YIC134	YOC130	MR8PV-S, MR8PV-1S, MR8PV-10S	N12VST	R14VST-5	R14VST-5	N12VST
RG142A/U	YIC124	YOC150	MR8PV-2	N14VST	R14VST-5	R14VST-5	N14VST
RG143A/U	YIC194	YOC200	MR8PV-3	—	R20VT	R20VT	—
RG144/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG187/U	YIC071	YOC100	MR8PV-S, MR8PV-1S	N10VST	R14VST-5	R14VST-5	N10VST
RG188/U	YIC071	YOC100	MR8PV-S, MR8PV-1S	N10VST	R14VST-5	R14VST-5	N10VST
RG195/U	YIC109	YOC120	MR8PV-S, MR8PV-1S	N12VST	R14VST-5	R14VST-5	N12VST
RG196/U	YIC046	YOC80	MR8PV-S	N8VST	R8VST	R8VST	N8VST
RG212/U	YIC194	YOC200	MR8PV-3	—	R20VT	R20VT	—
RG213/U	YIC297	YOC250	MR8PV-6	—	R25VT	R25VT	—
RG223/U	YIC124	YOC150	MR8PV-1S	N14VST	R14VST-5	R14VST-5	N14VST

Insulated UNIRING

One piece, nylon insulated ferrule for tapping, grounding or termination shielded cable.



Selection Chart
on p 33



Selection Chart for UNIRING (see pg 32 for description)

Catalog No.	Color.	Dimensions in Inches				Installation Tools & Die Set No.				
		A Dia.	B Dia. Min.	C Dia.	D Dia. Max.	Ratchet HYTOOL		HYTOOL	HYPRESS	
						MR8EC Type Includes Die	M8ND	Y10R & Y100-1	Y10NCP5-2	Y8ND
YEC90	Red	.058	.150	.26	.228	MR8EC-2	N10ECT	R13ECT	R13ECT	N10ECT
YEC100	Yellow	.063	.165	.27	.248	MR8EC-1	N10ECT	R12ECT	R12ECT	N10ECT
YEC110	Blue	.080	.173	.28	.258	MR8EC-1*	N12ECT	R12ECT	R12ECT	N12ECT
YEC120	Green	.101	.195	.30	.279	MR8EC-1*	N12ECT	R12ECT†	R12ECT†	N12ECT
YEC130	Black	.115	.213	.32	.300	MR8EC-2*	N15ECT	R13ECT†	R13ECT†	N15ECT
YEC150	Green	.134	.235	.34	.323	MR8EC-3	N15ECT	R16ECT	R16ECT	N15ECT
YEC160	Red	.156	.267	.38	.354	MR8EC-3	N16ECT	R16ECT	R16ECT	N16ECT
YEC180	Blue	.179	.306	.41	.390	MR8EC-4	N18ECT	R20ECT	R20ECT	N18ECT
YEC200	Yellow	.210	.337	.44	.433	MR8EC-4	N20ECT	R20ECT	R20ECT	N20ECT

* Also MR8EC-6 † Also R13ECT-1

Installation Tools for HYRING and UNIRING



MR8

Ratchet

HYTOOL MR8-PV, -EC, -NC Series

Lightweight, ratchet-controlled HYTOOL with interlocking crimping grooves for UNIRING installation, and for outer HYRING installation in combination with proper inner HYRING. Ratchet action controls depth of indent. Handles released only when crimp is completed. HYTOOL available for UNIRING, and a wide variety of insulated and uninsulated outer HYRING. Tool includes proper dies.

Weight: 1½ lbs.

Length: 10¾ in.



M8ND

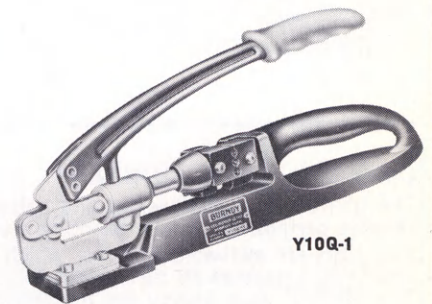
Ratchet

HYTOOL M8ND

Compact, rugged, lightweight and fast-acting tools, with closed head to permit operation in tight areas. Ratchet action controls depth of indent. Dies are removable, can be used in Y8ND tool, and are ordered separately.

Weight: 1¾ lbs.

Length: 10¾ in.



Y10Q-1

Toggle Action

HYTOOL Y10Q-1

Portable or bench-mounted HYTOOL with interchangeable dies for the exact type of shielded wire or coaxial used. High mechanical-advantage toggle action for easy operation. Dies are ordered separately and interchangeable with Y10R and Y10NCP.

Weight: 9 lbs.

Length: 13¾ in.



Y10R

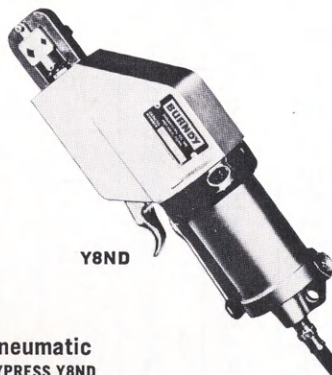
Toggle Action

HYTOOL Y10R

Bench-mounted, foot operated tools with interchangeable dies accommodating the full range of UNIRING and HYRING. Foot pedal frees hands for hi-speed rapid production work. Dies are ordered separately, are interchangeable for HYTOOL Y10Q-1 and Y10NCP5-2.

Weight: 10 lbs.

Length: 11½ in.



Y8ND

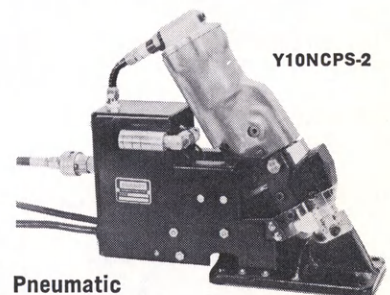
Pneumatic

HYPRESS Y8ND

Compact, rugged, lightweight and fast-acting tools, with closed head to permit operation in tight areas. Built-in full cycle valve prevents ram from returning before completion of full forward motion. Dies are removable, can be used in M8ND tool, and are ordered separately.

Weight: 2¾ lbs.

Overall Length: 9½ in.



Y10NCP5-2

Pneumatic

HYPRESS Y10NCP5-2

Bench-mounted, foot-operated tools with interchangeable dies accommodating the full range of UNIRING and HYRING. Foot pedal frees hands for hi-speed rapid production work. Dies are ordered separately, are interchangeable for HYTOOL Y10Q-1 and Y10R.

Weight: 20 lbs.

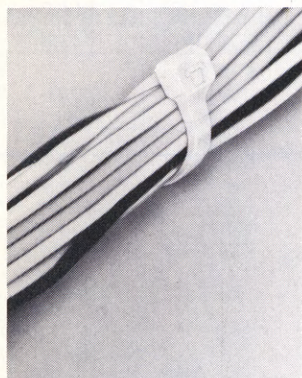
Height: 11½ in.

Nylon Cable Ties — UNIRAP

Types TF, TF-H and TL-L

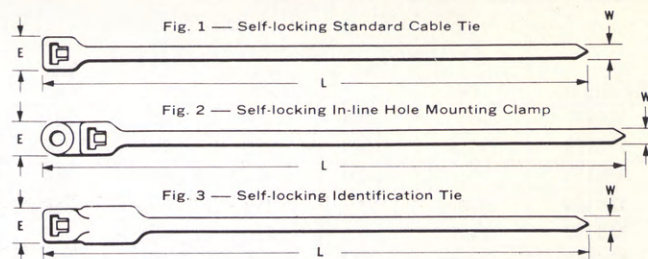
UNIRAP cable ties are fabricated of one piece nylon (MIL-M-20693) with no metal parts. They offer high tensile strength and are chemically resistive to solvents, alkalies, oils, grease and diluted acids. Self locking, they secure without twisting or leaving sharp projections.

These straps meet or exceed the requirements and are QPL to MIL-S-23190. They are designed for both field and production line use and may be installed easily by hand or with Burndy tooling, for pre-selected strap tightness.



Bundle Dia. (ins.)		Catalog Number	MS#	Fig.	Min. Tensile Strength (lbs.)	Screw Size	Dimensions in Inches			Max. Head Height	Installation Tooling	
Min.	Max.						L	W Max.	E Max.		Cat. No.	Setting
1/16	5/8	TF3	MS3367-4	1	18	—	3.60	.100	.195	.170	TY50-1	1-3
1/16	5/8	TF3H	—	2	18	#4	3.95	.100	.195	.170	TY50-1	1-3
1/16	1 1/4	TF4	MS3367-5	1	30	—	5.30	.145	.260	.200	TY50-1	2-6
1/16	1 3/4	TF5	MS3367-1	1	50	—	7.20	.190	.320	.240	TY50-1	3-8
1/16	1 3/4	TF5H	—	2	50	#10	7.20	.190	.320	.240	TY50-1	3-8
3/8	1 3/4	TF5L	MS3368-1	3	50	—	7.20	.190	.320	.240	TY120-1	2-6
3/16	3 1/2	TF7	MS3367-3	1	120	—	13.50	.310	.520	.330	TY120-1	3-8
3/16	3 1/2	TF7H	—	2	120	1/4"	14.00	.310	.520	.330	TY120-1	3-8
1/16	4	TF8	MS3367-2	1	50	—	14.25	.190	.320	.240	TY50-1	3-8
											TY120-1	2-6

Note: Part numbers are for natural color. For UNIRAP ties colored in accordance with MIL-STD-104, contact your Burndy representative.



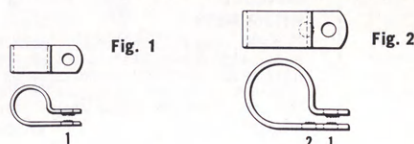
Cable Tie Tool for UNIRAP

The UNIRAP tool, lightweight and balanced for operator comfort, provides uniform, reliable performance under exacting production line or field service conditions.

Two sizes are available either of which will meet the majority of the user's needs. The TY50-1 handles all ties except TF-7, while the TY120-1 accepts all except TF-3. The UNIRAP tools exceed the requirements of MIL-T-81306.



Cable Clamps NYLOCLIP, Type HP-N



Meets applicable requirements of the following military specs:
MIL-E-16400 (Ships)
MIL-I-983 (Ships)
MIL-C-21565 (AER)

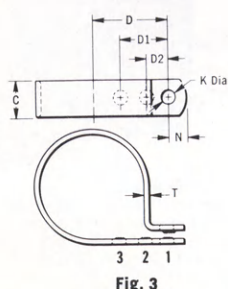
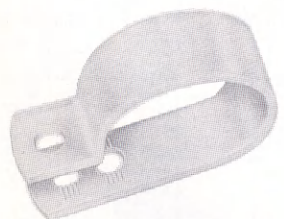


Fig. No.	Catalog No.	C	D	D1	D2	N	K Dia.	T (Material Thickness)	Wire Bundle Diameter		
									Hole 1	Hole 2	Hole 3
1	HP-2N*	.38	.37	—	—	.19	.17	.05	.10	—	—
1	HP-3N*	.38	.40	—	—	.19	.17	.05	.18	—	—
1	HP-4N*	.38	.43	—	—	.19	.17	.05	.22	—	—
1	HP-5N*	.38	.46	—	—	.19	.17	.05	.29	—	—
1	HP-6N*	.38	.50	—	—	.19	.17	.05	.33	—	—
1	HP-7N*	.38	.52	—	—	.19	.17	.05	.42	—	—
1	HP-8N*	.38	.54	—	—	.19	.17	.05	.47	—	—
1	HP-9N*	.38	.57	—	—	.19	.17	.05	.53	—	—
1	HP-10N*	.38	.61	—	—	.19	.17	.05	.62	—	—
1	HP-11N	.50	.65	—	—	.25	.20	.07	.66	—	—
1	HP-12N	.50	.69	—	—	.25	.20	.07	.70	—	—
1	HP-13N	.50	.72	—	—	.25	.20	.07	.82	—	—
2	HP-14N	.50	.76	.66	—	.25	.20	.07	.84	.73	—
2	HP-16N	.50	.82	.73	—	.25	.20	.07	.96	.88	—
2	HP-18N	.50	.86	.76	—	.25	.20	.07	1.05	.95	—
3	HP-24N	.50	.95	.93	.84	.25	.20	.07	1.47	1.38	1.23
3	HP-32N	.50	1.25	1.17	1.08	.25	.20	.07	1.92	1.82	1.72

* Available with .20 dia. K hole, add -G1 suffix.

NOTES

NOTES

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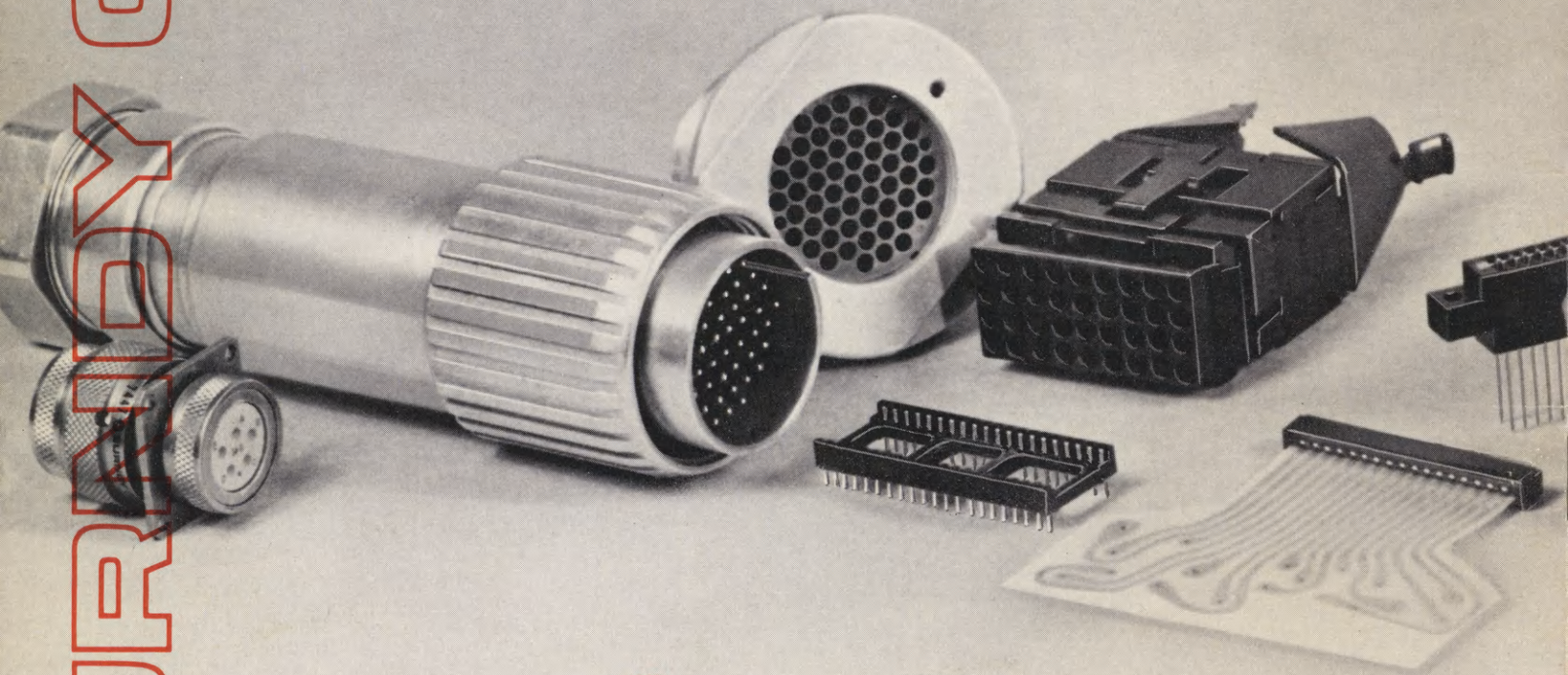
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